

Result No.	Query			Description	
	Score	Match	Length	DB	ID
1	1922	100.0	367	14	US-10-268-441-15
2	1044.5	54.3	366	14	US-10-268-441-10
3	1032.5	53.7	366	14	US-10-268-441-8
4	915	47.6	373	14	US-10-268-441-14
5	910.5	47.4	374	14	US-10-268-441-6
6	871.5	45.3	374	14	US-10-268-441-2
7	795	41.4	349	16	US-10-437-963-131434
8	560.5	29.2	259	12	US-10-425-114-38384
9	546.5	28.4	184	12	US-10-424-599-145548
10	503.5	26.2	190	12	US-10-424-599-238795
11	425.5	22.1	148	16	US-10-437-963-131478
12	416	21.6	144	16	US-10-767-701-41526
13	387.5	20.2	130	16	US-10-767-701-41477
14	208	10.8	59	14	US-10-268-441-4
15	171	8.9	50	12	US-10-424-599-284923

```
QY 61 APTPRGHVSSGNDPSLSYPLLIALLKOLETVEVAABHFYDCKWNYIILTEAMKAVIR 120
Db 61 APTPRGHVSSGNDPSLSYPLLIALLKOLETVEVAABHFYDCKWNYIILTEAMKAVIR 120
QY 121 LALFNSGYKMLQGGTPENEKDSNQESQNRAGNSGRNLGPHGLGNQHNHPNWLGR 180
Db 121 LALFNSGYKMLQGGTPENEKDSNQESQNRAGNSGRNLGPHGLGNQHNHPNWLGR 180
QY 181 AMSALSSFGQNRATTTSTPGWSRRIHQQAVIEPPMIKERRRTMSEILLTEKGVNGALFA 240
Db 181 AMSALSSFGQNRATTTSTPGWSRRIHQQAVIEPPMIKERRRTMSEILLTEKGVNGALFA 240
QY 241 IGEVLYITRPLIYVLFIRKYGVRSWIPWALSUSDVTLGMGLLANSKWGEKSKQVHFSGP 300
Db 241 IGEVLYITRPLIYVLFIRKYGVRSWIPWALSUSDVTLGMGLLANSKWGEKSKQVHFSGP 300
QY 301 EKDELRRKLIWALYMRDPPTTKYTROKLESSQKKLELIPLIGFTEKIVELLEGAQSR 360
Db 301 EKDELRRKLIWALYMRDPPTTKYTROKLESSQKKLELIPLIGFTEKIVELLEGAQSR 360
QY 361 YTYISGS 367
Db 361 YTYISGS 367
```

```
RESULT 2
US-10-268-441-10
; Sequence 10, Application US/10268441
; Publication No. US20030084475A1
; GENERAL INFORMATION:
; APPLICANT: Cahoon, Edgar B.
; APPLICANT: Coughlan, Sean J.
; APPLICANT: Helentjaris, Timothy George
; APPLICANT: Jung, Rudolf
; APPLICANT: Li, Chun Ping
; APPLICANT: Nichols, Scott
; APPLICANT: Ripp, Kevin
; APPLICANT: Zheng, Peizhong
; TITLE OF INVENTION: NUCLEIC ACID FRAGMENTS AND PROTEINS AFFECTING STORAGE
; TITLE OF INVENTION: ORGANELLE
; FILE REFERENCE: BB1392 US NA
; CURRENT APPLICATION NUMBER: US/10/268,441
; PRIOR FILING DATE: 2002-10-09
; PRIOR FILING DATE: 2000-09-28
; PRIOR FILING DATE: 1999-09-30
; NUMBER OF SEQ ID NOS: 18
; SOFTWARE: Microsoft Office 97
; SEQ ID NO 10
; LENGTH: 366
; TYPE: PRT
; ORGANISM: Glycine max
; FEATURE:
; NAME/KEY: UNSURE
; LOCATION: (26)
; FEATURE:
; NAME/KEY: UNSURE
; LOCATION: (71)
; FEATURE:
; NAME/KEY: UNSURE
; LOCATION: (110)
; FEATURE:
; NAME/KEY: UNSURE
; LOCATION: (143)
; FEATURE:
; NAME/KEY: UNSURE
; LOCATION: (153)
; FEATURE:
; NAME/KEY: UNSURE
; LOCATION: (173)
```

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; FEATURE:
; NAME/KEY: UNSURE
; LOCATION: (177)
; FEATURE:
; NAME/KEY: UNSURE
; LOCATION: (192)
US-10-268-441-10

Query Match 54.3%; Score 1044.5; DB 14; Length 366;
Best Local Similarity 55.5%; Pred. No. 4.3e-99;
Matches 211; Conservative 58; Mismatches 84; Indels 27; Gaps 6;

QY 1 MEAYKQWVRNREYVQSGSPANGLTWLLPEKFSASEIGPEAVTAFLGIFTTINEHIEN 60
Db 1 MEAYKRWVRQNEKVFHSMESLANGLXWLLPERFSESEIGPEAVTILGIIITALNEHIIDT 60
QY 61 APTPRGHVSSGNDPSLSYPLLIALLKOLETVEVAABHFYDCKWNYIILTEAMKAVI 119
Db 61 A--PKQNTGTVXVPYFPYPLCLSAKDLETVEVVAQOYTGDDKKWNFLAXTEATKVLV 118
QY 120 RLALFRNSGYKMLQGGTPENEKDSNQESQ-----NRAGNSGRNLGPHGLGNQ 169
Db 119 RLSFRKSGYKMLQGGTPENEKDSQDFTSQHXLGLKPDVHRRPGYKMNLLGA----- 172
QY 170 NHHNPWNLEGRAMSALSSFGQNRATTTSTPGWSRRIHQQAVIEPPMIKERRRTMSEIL 229
Db 173 ---XPMXEGRALSALVRFGEKK--GSDPWLRRRVEHQOATMEPTTSRVDRLTLLTIL 226
QY 230 TEKGVNGALFAIGEVLYITRPLIYVLFIRKYGVRSWIPWALSUSDVTLGMGLLA--NSKW 287
Db 227 SERGLGALFFTIGEVLLISRLIYVLFIRKYGIRSWTEFWFLSLAIDCNSILSLITSV 286
QY 288 WGEKSKQVHFSGPEKDELRRKLIWALYMRDPPTTKYTROKLESSQKKLELIPLIGFLT 347
Db 287 AGGDRMPHLSALEKDEVKRRKLLFVLYMRDPFFSKYTRORLESTEKVLEPIVIGFLT 346
QY 348 EKIVELLEGAQSRITYISGS 367
Db 347 AKLVLLIIGAQTRYTYMSGS 366
```

```
RESULT 3
US-10-268-441-8
; Sequence 8, Application US/10268441
; Publication No. US20030084475A1
; GENERAL INFORMATION:
; APPLICANT: Cahoon, Edgar B.
; APPLICANT: Coughlan, Sean J.
; APPLICANT: Helentjaris, Timothy George
; APPLICANT: Jung, Rudolf
; APPLICANT: Li, Chun Ping
; APPLICANT: Nichols, Scott
; APPLICANT: Ripp, Kevin
; APPLICANT: Zheng, Peizhong
; TITLE OF INVENTION: NUCLEIC ACID FRAGMENTS AND PROTEINS AFFECTING STORAGE
; TITLE OF INVENTION: ORGANELLE
; FILE REFERENCE: BB1392 US NA
; CURRENT APPLICATION NUMBER: US/10/268,441
; PRIOR FILING DATE: 2002-10-09
; PRIOR APPLICATION NUMBER: US/09/672,607
; PRIOR FILING DATE: 2000-09-28
; PRIOR APPLICATION NUMBER: 60/157209
; NUMBER OF SEQ ID NOS: 18
; SOFTWARE: Microsoft Office 97
; SEQ ID NO 8
; LENGTH: 366
; TYPE: PRT
; ORGANISM: Glycine max
; FEATURE:
; NAME/KEY: UNSURE
; LOCATION: (26)
```

FEATURE:  
NAME/KEY: UNSURE  
LOCATION: (71)  
FEATURE:  
NAME/KEY: UNSURE  
LOCATION: (110)  
FEATURE:  
NAME/KEY: UNSURE  
LOCATION: (143)  
FEATURE:  
NAME/KEY: UNSURE  
LOCATION: (153)  
FEATURE:  
NAME/KEY: UNSURE  
LOCATION: (173)  
FEATURE:  
NAME/KEY: UNSURE  
LOCATION: (177)  
FEATURE:  
NAME/KEY: UNSURE  
LOCATION: (192)  
FEATURE:  
NAME/KEY: UNSURE  
LOCATION: (197)  
FEATURE:  
NAME/KEY: UNSURE  
LOCATION: (204)  
US-10-268-441-8

Query Match 53.7%; Score 1032.5; DB 14; Length 366;  
Best Local Similarity 55.3%; Pred. No. 7.5e-98;  
Matches 210; Conservative 57; Mismatches 86; Indels 27; Gaps 6;  
Qy 1 MEAYKQWVRNREYVQSGFANGLTWLLPEKFSASEIGPEAVTAFLGIFTTINEHIEN 60  
Db 1 MEAYKQWVRNREYVQSGFANGLTWLLPEKFSASEIGPEAVTAFLGIFTTINEHIEN 60  
Qy 61 APTPRGHVSSGNDPSSYPLLIALLKDLTWEVAAHFGY-DKKNYIILTEAMKAVI 119  
Db 61 A--PKQNTGSVXPYPFPLCLSLKDLTWEVAAHFGY-DKKNYIILTEAMKAVI 119  
Qy 120 RLALFRNSGYKMLQGGTTPNEEKDSNQSESG-----NRAGNSGRNLGPHGLNQ 169  
Db 119 RLSLFRKSGYKMLQGGTTPNEEKDSNQSESG-----NRAGNSGRNLGPHGLNQ 169  
Qy 170 NHPNPNLEGRAMSALSGFQNGARTTSTPGWRRRHOQAVIEPPMIKERRTMSBL 229  
Db 173 ---XPMXEGALSALVRFGKXK--GSDXVWLRRVXHQOATMEPTTSRVDRLTLIL 226  
Qy 230 TEKVNGALFAIGVLYITRPLIYVLFIRKYGVRSWIPWALSLSVDTLGMGLLA--NSKW 287  
Db 227 SERGLCGALFPIGEVLLISRLIYVLFIRKYGVRSWIPWALSLSVDTLGMGLLA--NSKW 286  
Qy 288 WGEKSKQVHSGPDKDELRRKLIWALYLMRDPFTTKYTRQKLESSOKKLELIFLGLT 347  
Db 287 AGGDRMFHLSALEKDEKVRKLLFVLYLMRDPFTTKYTRQKLESSOKKLELIFLGLT 346  
Qy 348 EXIVLEGAQSRYYTISGS 367  
Db 347 AKIVLEIIGAQTRITYMSGS 366

RESULT 4  
US-10-268-441-14  
Sequence 14, Application US/10268441  
Publication No. US20030084475A1  
GENERAL INFORMATION:  
APPLICANT: Cahoon, Edgar B.  
APPLICANT: Coughlan, Sean J.  
APPLICANT: Helentjaris, Timothy George  
APPLICANT: Jung, Rudolf  
APPLICANT: Li, Chun Ping  
APPLICANT: Nichols, Scott

APPLICANT: Ripp, Kevin  
APPLICANT: Zheng, Peizhong  
TITLE OF INVENTION: NUCLEIC ACID FRAGMENTS AND PROTEINS AFFECTING STORAGE  
TITLE OF INVENTION: ORGANELLE  
TITLE OF INVENTION: FORMATION AND METHODS OF USE  
FILE REFERENCE: BB1392 US NA  
CURRENT APPLICATION NUMBER: US/10/268,441  
CURRENT FILING DATE: 2002-10-09  
PRIOR APPLICATION NUMBER: US/09/672,607  
PRIOR FILING DATE: 2000-09-28  
PRIOR APPLICATION NUMBER: 60/157209  
NUMBER OF SEQ ID NOS: 18  
SOFTWARE: Microsoft Office 97  
SEQ ID NO 14  
LENGTH: 373  
TYPE: PRT  
ORGANISM: Triticum aestivum  
US-10-268-441-14

Query Match 47.6%; Score 915; DB 14; Length 373;  
Best Local Similarity 47.9%; Pred. No. 1.1e-85;  
Matches 184; Conservative 78; Mismatches 94; Indels 28; Gaps 8;  
Qy 1 MEAYKQWVRNREYVQSGFANGLTWLLPEKFSASEIGPEAVTAFLGIFTTINEHIEN 60  
Db 1 MEAYKQWVRNREYVQSGFANGLTWLLPEKFSASEIGPEAVTAFLGIFTTINEHIEN 60  
Qy 61 APTPRGHVSSGNDPSSYPLLIALLKDLTWEVAAHFGY-DKKNYIILTEAMKAVI 119  
Db 60 --TPTDGHSLASKQSPWLVVSLKDLTWEVAAHFGY-DKKNYIILTEAMKAVI 117  
Qy 120 RLALFRNSGYKMLQGGTTPNEEKDSNQSESG-----NRAGNSGRNLGPHGLNQHHNPW--- 175  
Db 118 RLAAFRNGYKMLQGGTTPNEEKDSNQSESG-----NRAGNSGRNLGPHGLNQHHNPW--- 174  
Qy 176 -----NLGRAMSALSGFQNGARTTSTPGWRRRHOQAVIEPPMIKERRT 224  
Db 175 GPDGKPGIISKTLEGRAVAALNRFGQNAKML--SDPTWMSRLQSPV---PPVMEIEKPT 229  
Qy 225 MSELLTEKVNGALFAIGVLYITRPLIYVLFIRKYGVRSWIPWALSLSVDTLGMGLLA 284  
Db 230 LATWSSKSGISGRFLMGEAVHIFRPLIYVLLIRKFGIKSWTPWLVSLAVELASLGIHSH 289  
Qy 285 SKWGEKSKQVHSGPDKDELRRKLIWALYLMRDPFTTKYTRQKLESSOKKLELIFL 343  
Db 290 ATDLNHRAGVHQLSSAERDELKRRKMWALYVWRDFFASVYTRHLEKAKALSPVPLI 349  
Qy 344 GELTEKIVLEGAQSRYYTISGS 367  
Db 350 GFITGKLVLEGAQSRYYTISGS 373

RESULT 5  
US-10-268-441-6  
Sequence 6, Application US/10268441  
Publication No. US20030084475A1  
GENERAL INFORMATION:  
APPLICANT: Cahoon, Edgar B.  
APPLICANT: Coughlan, Sean J.  
APPLICANT: Helentjaris, Timothy George  
APPLICANT: Jung, Rudolf  
APPLICANT: Li, Chun Ping  
APPLICANT: Nichols, Scott  
APPLICANT: Ripp, Kevin  
APPLICANT: Zheng, Peizhong  
TITLE OF INVENTION: NUCLEIC ACID FRAGMENTS AND PROTEINS AFFECTING STORAGE  
TITLE OF INVENTION: ORGANELLE  
TITLE OF INVENTION: FORMATION AND METHODS OF USE  
FILE REFERENCE: BB1392 US NA  
CURRENT APPLICATION NUMBER: US/10/268,441  
CURRENT FILING DATE: 2002-10-09  
PRIOR APPLICATION NUMBER: US/09/672,607

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; PRIOR FILING DATE: 2000-09-28
; PRIOR APPLICATION NUMBER: 60/157209
; PRIOR FILING DATE: 1999-09-30
; NUMBER OF SEQ ID NOS: 18
; SOFTWARE: Microsoft Office 97
; SEQ ID NO 6
; LENGTH: 374
; TYPE: PRT
; ORGANISM: Oryza sativa
US-10-268-441-6

Query Match          47.4%; Score 910.5; DB 14; Length 374;
Best Local Similarity 47.4%; Pred. No. 3.4e-85;
Matches 181; Conservative 82; Mismatches 96; Indels 23; Gaps 7;

QY 1 MEAYKQWVRNREYVQSGFANGLTWLLPEKFSASEIGPEAVTAFLGIFTINHIEN 60
DB 1 MEAYKLWVRNEDLVRSLESANGLTWILPERFANSEIAPEAVYALGIVSSVNGHIIE- 59
QY 61 APTPRGHVSSGNDPSLSYPLLIATILKOLETVVEVAABHFYG-DKKWNYIILTEAMKAVI 119
DB 60 --TPTDGGQTLASKEQSIWLSVSVLKDIEAVVEAAQHFVGGDRKWSFLAVTEAVKAGV 117
QY 120 RLALFRNSGYKMLQGGTTPNEEK---DSNQSESQNRAG-----NSGRNLGPHGL 166
DB 118 RLAAFGESYKMLQGGEVANEERINILDENFGAKSNGVPIVYPNGHFQNGHGVASNGL 177
QY 167 GNQNHNPWNLEGRAMSALSFGQNRATTTSTPGWSRRIHQQAIVIEPPMIKERRRTWS 226
DB 178 DGKAGFVSKSLEGRAVAALNKFQNAKMT--SDPMWMMKALPPP---DPPAMVVEKPTLA 232
QY 227 ELLTEKGVNGALFATGEVLYITRPLIYVLFIRKYGVRSWIPWALSISVDLTGMGLANSK 286
DB 233 SIWAKSGISGRFLVGEVVIHFRPLVYVLLIRKFKISWTPWLVSIAVEITSLGHSRAT 292
QY 287 MWGEKSKOVH-FSGPEKDELRRKLIWALYLMRDPFFTKYTRQKLESSOKLELIPLIGF 345
DB 293 DLHQGGKVKHQLSSAERDELKRRKMWALYVNRDPFFTKYTRKHLOKAEKVLDPVPLIGF 352
QY 346 LTEKIVELLEGAQSRITYISGS 367
DB 353 LTGKLVLEGAQTRYTYTSGS 374

RESULT 6
US-10-268-441-2
; Sequence 2, Application US/10268441
; Publication No. US20030084475A1
; GENERAL INFORMATION:
; APPLICANT: Cahoon, Edgar B.
; APPLICANT: Coughlan, Sean J.
; APPLICANT: Helentjaris, Timothy George
; APPLICANT: Jung, Rudolf
; APPLICANT: Li, Chun Ping
; APPLICANT: Nichols, Scott
; APPLICANT: Ripp, Kevin
; APPLICANT: Zheng, Feizhong
; TITLE OF INVENTION: NUCLEIC ACID FRAGMENTS AND PROTEINS AFFECTING STORAGE
; TITLE OF INVENTION: ORGANELLE
; TITLE OF INVENTION: FORMATION AND METHODS OF USE
; FILE REFERENCE: BB1392 US NA
; CURRENT APPLICATION NUMBER: US/10/268,441
; PRIOR FILING DATE: 2002-10-09
; PRIOR APPLICATION NUMBER: US/09/672,607
; PRIOR FILING DATE: 2000-09-28
; PRIOR APPLICATION NUMBER: 60/157209
; PRIOR FILING DATE: 1999-09-30
; NUMBER OF SEQ ID NOS: 18
; SOFTWARE: Microsoft Office 97
; SEQ ID NO 2
; LENGTH: 374
; TYPE: PRT
; ORGANISM: Zea mays

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US-10-268-441-2

Query Match          45.3%; Score 871.5; DB 14; Length 374;
Best Local Similarity 47.1%; Pred. No. 3.7e-81;
Matches 180; Conservative 75; Mismatches 104; Indels 23; Gaps 7;

QY 1 MEAYKQWVRNREYVQSGFANGLTWLLPEKFSASEIGPEAVTAFLGIFTINHIEN 60
DB 1 MEAYKLWVRNEDLVRSLESANGLTWILPERFANSEIAPEAVYALGIVSSVNGHIID- 59
QY 61 APTPRGHVSSGNDPSLSYPLLIATILKOLETVVEVAABHFYG-DKKWNYIILTEAMKAVI 119
DB 60 APTENHSPAS--KEQSIWGLVSVYLVKDVAVVEAAQHFVGGDRKWSFLAVTEAVKAGV 117
QY 120 RLALFRNSGYKMLQGGTTPNEEKDSNQSESQNRAG-----SGRNLGPHGL 166
DB 118 RLAAFRSGYKMLQGGEVVNEEVTVLENNYGVNGVPAIYPMDGHAENGHTWAKGL 177
QY 167 GNQNHNPWNLEGRAMSALSFGQNRATTTSTPGWSRRIHQQAIVIEPPMIKERRRTWS 226
DB 178 DGKNGFVSKSLEKRAVAALNKFGENAK--WMSDPMWRR---PQTPTEPTVMVAEKPTLT 232
QY 227 ELLTEKGVNGALFATGEVLYITRPLIYVLFIRKYGVRSWIPWALSISVDLTGMGLANSK 286
DB 233 SIWSTKSGTGRFLVGEVVIHFRPLVYVLLIRKFKISWTPWLVSIAVELTSLGHSRAT 292
QY 287 MWGEKSKOVH-FSGPEKDELRRKLIWALYLMRDPFFTKYTRQKLESSOKLELIPLIGF 345
DB 293 DLNHLRGVHQLSSAERDELKRRKMWALYVNRDPFFASYSKSHLLKAEQFLNPVPLIGF 352
QY 346 LTEKIVELLEGAQSRITYISGS 367
DB 353 LTGKLVLELEGITRYTYTSGS 374

RESULT 7
US-10-437-963-131434
; Sequence 131434, Application US/10437963
; Publication No. US20040123343A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; APPLICANT: Wu, Wei
; APPLICANT: Boukharov, Andrey A.
; APPLICANT: Barbazuk, Brad
; APPLICANT: Li, Ping
; TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53221)B
; CURRENT APPLICATION NUMBER: US/10/437,963
; CURRENT FILING DATE: 2003-05-14
; NUMBER OF SEQ ID NOS: 204966
; SEQ ID NO 131434
; LENGTH: 349
; TYPE: PRT
; ORGANISM: Oryza sativa
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT4530_3349C.1.pep
US-10-437-963-131434

Query Match          41.4%; Score 795; DB 16; Length 349;
Best Local Similarity 43.5%; Pred. No. 2.8e-73;
Matches 170; Conservative 70; Mismatches 85; Indels 66; Gaps 10;

QY 1 MEAYKQWVRNREYVQSGFANGLTWLLPEKFSASEIGPEAVTAFLGIF 50
DB 1 MEAYKLWVRNEDLVRSLESANGLTWILPERFANSEIAPEAVYALGIV 60
QY 51 TTINHHIENAPTPRGHVGSSGNDPSLSYPLLIATILKOLETVVEVAABHFYG-DKKWNYI 109
DB 61 SSVNQHIIE---TPTDGGQTLASKEQSIWLSVSVLKDIEAVVEAAQHFVGGDRKWSFL 117

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## RESULT 9

```

RESULT 10
US-10-424-599-238795
; Sequence 238795, Application US/10424599
; Publication No. US20040031072A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa Thomas J
; APPLICANT: Kovalic David K
; APPLICANT: Zhou Yihua
; APPLICANT: Cao Yongwei
; TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53223)B
; CURRENT APPLICATION NUMBER: US/10/424,599
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 285694
; SEQ ID NO 238795
; LENGTH: 190
; TYPE: PRT
; ORGANISM: Glycine max
; FEATURE:
; NAME/KEY: unsure
; LOCATION: (1)..(190)
; OTHER INFORMATION: unsure at all Xaa locations
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT3847_57657C.1.pgp
US-10-424-599-238795

```

Query Match	26.2%	Score 503.5;	DB 12;	Length 190;
Best Local Similarity	53.9%;	Pred. No. 1.8e-43;		
Matches 110; Conservative	24;	Mismatches 41;	Indels 29;	Gaps 6;

QY 1 MEAYKQWVRNREYVQSGFANGLTWLLPKFSASEIGPEAVTAFLGIFTTINEHIEN 60  
DB 1 MEAYKQWVRNREYVQSGFANGLTWLLPKFSASEIGPEAVTAFLGIFTTINEHIEN 60  
QY 61 APTPRGHVSSGNDPSLSYPLLIATLKQETVVEVAABHFGY-DKKWNYIILTEAMKA-- 117  
DB 61 A--PKQNTGSKVPSFFYPLCLSLKQLELVEVVAQYGGDDKKWFLAVTEATKXSR 118  
QY 118 --VIRLALFRNSGYKMLQGGTTPNEKDSNQSSEQ-----NRAGNSGRNLGPHG 165  
DB 119 IMVRELSLFRKSGYKMLQGGTTPNEKDSNQSSEQ-----NRAGNSGRNLGPHG 176  
QY 166 LGNQHNHPNLEGRAMSAISFG 189  
DB 177 -----NPMNOEGSALS---FG 190

## RESULT 11

US-10-437-963-131478  
; Sequence 131478, Application US/10437963  
; Publication No. US20040123343A1  
; GENERAL INFORMATION:  
; APPLICANT: La Rosa, Thomas J.  
; APPLICANT: Kovalic, David K.  
; APPLICANT: Zhou, Yihua  
; APPLICANT: Cao, Yongwei  
; APPLICANT: Wu, Wei  
; APPLICANT: Boukharov, Andrey A.  
; APPLICANT: Barbazuk, Brad  
; APPLICANT: Li, Ping  
; TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With  
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement  
; FILE REFERENCE: 38-21(53221)B  
; CURRENT APPLICATION NUMBER: US/10/437,963  
; CURRENT FILING DATE: 2003-05-14  
; NUMBER OF SEQ ID NOS: 204966  
; SEQ ID NO 131478  
; LENGTH: 148  
; TYPE: PRT  
; ORGANISM: Oryza sativa  
; FEATURE:  
; NAME/KEY: unsure  
; LOCATION: (1)-(148)  
; OTHER INFORMATION: unsure at all Xaa locations  
; FEATURE:  
; OTHER INFORMATION: Clone ID: PAT MRT4530\_3353C.1.pep  
US-10-437-963-131478

Query Match 22.1%; Score 425.5; DB 16; Length 148;  
Best Local Similarity 51.7%; Pred. No. 1.5e-35;  
Matches 75; Conservative 39; Mismatches 30; Indels 1; Gaps 1;  
QY 224 TMSLTERGVANGALFAIGEVLYITRPLIYVLFIRKYGVRSWIPMAIS:SVDTLGMGLLA 283  
DB 4 TLASISWAGSISGRLPXYGEVHIFRPLLYVLLIKFKGKSWTPMLVSLAVETISLGHS 63  
QY 284 NSKWGEKSKQVH-FSGPEKDELRRKLIALWYLMRDPFFTKYTRQKLESSQKKLELPL 342  
DB 64 RATDLHQGGKQVHLSAERDELKRRMMWALYLMRDPFFTKYTRQKLEKQAEKVLDPVPL 123

QY 343 IGFLETKIVELLEGAQSRVYISGS 367  
DB 124 IGFLETKIVELLEGAQSRVYISGS 148

## RESULT 12

US-10-767-701-41526  
; Sequence 41526, Application US/10767701  
; Publication No. US20040172684A1  
; GENERAL INFORMATION:  
; APPLICANT: Kovalic, David K.  
; APPLICANT: Zhou, Yihua

; APPLICANT: Cao, Yongwei  
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With  
; TITLE OF INVENTION: Plants and Uses Thereof For Plant Improvement  
; FILE REFERENCE: 38-21(53535)B  
; CURRENT APPLICATION NUMBER: US/10/767,701  
; CURRENT FILING DATE: 2004-01-29  
; NUMBER OF SEQ ID NOS: 63128  
; SEQ ID NO 41526  
; LENGTH: 144  
; TYPE: PRT  
; ORGANISM: Sorghum bicolor  
; FEATURE:  
; OTHER INFORMATION: Clone ID: SORBI-28MAY03-C43806\_1.pep  
US-10-767-701-41526

Query Match 21.6%; Score 416; DB 16; Length 144;  
Best Local Similarity 56.9%; Pred. No. 1.4e-34;  
Matches 82; Conservative 28; Mismatches 30; Indels 4; Gaps 3;

QY 1 MEAYKQWVRNREYVQSGFANGLTWLLPKFSASEIGPEAVTAFLGIFTTINEHIEN 60  
DB 1 MEAYKQWVRNREYVQSGFANGLTWLLPKFSASEIGPEAVTAFLGIFTTINEHIEN 59  
QY 61 APTPRGHVSSGNDPSLSYPLLIATLKQETVVEVAABHFGY-DKKWNYIILTEAMKA 119  
DB 60 APTENHSFAS--KEQSIPLWGLVSVLKQEAWEVVAQAQHFVGGDDRKWSFLAVTEAVKAGV 117  
QY 120 RLALFRNSGYKMLQGGTTPNEEK 143  
DB 118 RLALFRNSGYKMLQGGTTPNEEK 141

## RESULT 13

US-10-767-701-41477  
; Sequence 41477, Application US/10767701  
; Publication No. US20040172684A1  
; GENERAL INFORMATION:  
; APPLICANT: Kovalic, David K.  
; APPLICANT: Zhou, Yihua  
; APPLICANT: Cao, Yongwei  
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With  
; TITLE OF INVENTION: Plants and Uses Thereof For Plant Improvement  
; FILE REFERENCE: 38-21(53535)B  
; CURRENT APPLICATION NUMBER: US/10/767,701  
; CURRENT FILING DATE: 2004-01-29  
; NUMBER OF SEQ ID NOS: 63128  
; SEQ ID NO 41477  
; LENGTH: 130  
; TYPE: PRT  
; ORGANISM: Sorghum bicolor  
; FEATURE:  
; OTHER INFORMATION: Clone ID: SORBI-28MAY03-C40655\_1.pep  
US-10-767-701-41477

Query Match 20.2%; Score 387.5; DB 16; Length 130;  
Best Local Similarity 53.1%; Pred. No. 1.1e-31;  
Matches 69; Conservative 31; Mismatches 29; Indels 1; Gaps 1;

QY 239 FAIGEVLYITRPLIYVLFIRKYGVRSWIPMAIS:SVDTLGMGLANSKWGKSKOV-HF 297  
DB 1 FVLGEVHIFRPLVYVLLIRKFGIKSWTPMLVSLAVETISLGHSHTDLNHLKGVHHL 60  
QY 298 SGPEKDELRRKLIALWYLMRDPFFTKYTRQKLESSQKKLELPLTGPTEKIVELLEGA 357  
DB 61 SSAERDELKRRMMWALYLMRDPFFTKYTRQKLEKQAEKVLNFPVLIGFTLGLIELLEGV 120  
QY 358 QSRVYISGS 367  
DB 121 QSRVYISGS 130

## RESULT 14

US-10-268-441-4

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; Sequence 4, Application US/10268441
; Publication NO. US20030084475A1
; GENERAL INFORMATION:
; APPLICANT: Cahoon, Edgar B.
; APPLICANT: Coughlan, Sean J.
; APPLICANT: Helentjaris, Timothy George
; APPLICANT: Jung, Rudolf
; APPLICANT: Li, Chun Ping
; APPLICANT: Nichols, Scott
; APPLICANT: Ripp, Kevin
; APPLICANT: Zheng, Peizhong
; TITLE OF INVENTION: NUCLEIC ACID FRAGMENTS AND PROTEINS AFFECTING STORAGE
; TITLE OF INVENTION: ORGANELLE
; FILE REFERENCE: B1392 US NA
; CURRENT APPLICATION NUMBER: US/10/268,441
; PRIOR FILING DATE: 2002-10-09
; PRIOR APPLICATION NUMBER: US/09/672,607
; PRIOR FILING DATE: 2000-09-28
; PRIOR APPLICATION NUMBER: 60/157209
; PRIOR FILING DATE: 1999-09-30
; NUMBER OF SEQ ID NOS: 18
; SOFTWARE: Microsoft Office 97
; SEQ ID NO 4
; LENGTH: 59
; TYPE: PRT
; ORGANISM: Oryza sativa
; FEATURE:
; NAME/KEY: UNSURE
; LOCATION: (20)
; FEATURE:
; NAME/KEY: UNSURE
; LOCATION: (35)
US-10-268-441-4

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Query Match 10.8%; Score 208; DB 14; Length 59;  
 Best Local Similarity 64.4%; Pred. No. 1.3e-13;  
 Matches 38; Conservative 10; Mismatches 11; Indels 0; Gaps 0;

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QY 1 MEAYKQWVRNREYVQSGFSGFANGLTWLLPKFSAEIGPEAVTAFGLGFTTINEHIE 59
Db 1 MEAYKLVWRKRDVLRSLXGLANGLTWLLPERFAXSEIAPAEVYAFGLGIVSSVNOHIE 59

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RESULT 15
US-10-424-599-284923
; Sequence 284923, Application US/10424599
; Publication NO. US20040031072A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa Thomas J
; APPLICANT: Kovalic David K
; APPLICANT: Zhou Yihua
; APPLICANT: Cao Yongwei
; TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53223)B
; CURRENT APPLICATION NUMBER: US/10/424,599
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 285684
; SEQ ID NO 284923
; LENGTH: 50
; TYPE: PRT
; ORGANISM: Glycine max
; FEATURE:
; NAME/KEY: unsure
; LOCATION: (1)..(50)
; OTHER INFORMATION: unsure at all Xaa locations
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT3847_99312C.1.pap
US-10-424-599-284923

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Query Match 8.9%; Score 171; DB 12; Length 50;  
 Best Local Similarity 65.3%; Pred. No. 7.2e-10;

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Matches 32; Conservative 7; Mismatches 10; Indels 0; Gaps 0;
QY 1 MEAYKQWVRNREYVQSGFSGFANGLTWLLPKFSAEIGPEAVTAFGLG 49
Db 1 MEAYKKWVRQNKRFVHSLXSLANVTLLPERVSESKIGPEAITTILGI 49

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Search completed: September 22, 2004, 12:37:23  
 Job time : 132 secs

Blank sheet



GenCore version 5.1.6  
Copyright (c) 1993 - 2004 Compugen Ltd.

OM protein - protein search, using sw model

Run on: September 22, 2004, 11:49:56 ; Search time 33 Seconds  
(without alignments)  
574.143 Million cell updates/sec

Title: US-09-545-072A-2  
Perfect score: 1922  
Sequence: 1 MEAYKQWRNRREYVQSFSGS.....EKIVELLEGQSRVTYISGS 367

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 389414 seqs, 51625971 residues

Total number of hits satisfying chosen parameters: 389414

Minimum DB seq length: 0

Maximum DB seq length: 20000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

Issued Patents AA.\*  
1: /cgn2\_6/ptodata/2/iaa/5A COMB.pep.\*  
2: /cgn2\_6/ptodata/2/iaa/5B COMB.pep.\*  
3: /cgn2\_6/ptodata/2/iaa/6A COMB.pep.\*  
4: /cgn2\_6/ptodata/2/iaa/6B COMB.pep.\*  
5: /cgn2\_6/ptodata/2/iaa/PCFUS COMB.pep.\*  
6: /cgn2\_6/ptodata/2/iaa/backfiles1.pep.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	98	5.1	838	4	US-09-489-039A-9864
2	93	4.8	406	4	US-09-252-991A-19757
3	89.5	4.7	1257	2	US-08-750-152A-2
4	89	4.6	3165	2	US-08-459-146-3
5	89	4.6	3165	2	US-08-459-065-3
6	88	4.6	1489	6	5183745-2
7	88	4.6	1706	4	US-08-669-785-2
8	87.5	4.6	302	2	US-08-893-853-3
9	87.5	4.6	302	3	US-09-113-921-3
10	87.5	4.6	302	4	US-09-451-067-3
11	86.5	4.5	1012	2	US-08-475-891A-4
12	86.5	4.5	1025	2	US-08-567-375-4
13	86.5	4.5	1025	2	US-08-587-680A-4
14	85.5	4.4	2595	3	US-09-036-987A-2
15	85.5	4.4	2595	3	US-09-370-700-2
16	85.5	4.4	2595	4	US-09-603-207-2
17	85	4.4	424	4	US-09-198-452A-825
18	84.5	4.4	4150	3	US-09-428-517-2
19	83	4.3	757	4	US-09-252-991A-20231
20	83	4.3	761	4	US-09-328-352-5650
21	82.5	4.3	443	4	US-09-134-001C-3148
22	82.5	4.3	825	4	US-09-489-039A-11003
23	82	4.3	304	4	US-09-134-000C-4520
24	81.5	4.2	404	4	US-09-489-039A-10542
25	81.5	4.2	485	4	US-09-134-000C-6295
26	81.5	4.2	886	4	US-09-252-991A-24378
27	81.5	4.2	1250	1	US-08-441-139-9

#### ALIGNMENTS

##### RESULT 1

US-09-489-039A-9864

; Sequence 9864, Application US/09489039A

; Patent No. 6610836

; GENERAL INFORMATION:

; APPLICANT: Gary Breton et. al

; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO KLEBSIELLA

; FILE REFERENCE: PNEUMONIAE FOR DIAGNOSTICS AND THERAPEUTICS

; CURRENT APPLICATION NUMBER: US/09/489,039A

; CURRENT FILING DATE: 2000-01-27

; PRIOR APPLICATION NUMBER: US 60/117,747

; PRIOR FILING DATE: 1999-01-29

; NUMBER OF SEQ ID NOS: 14342

; SEQ ID NO 9864

; LENGTH: 838

; TYPE: PRT

; ORGANISM: Klebsiella pneumoniae

US-09-489-039A-9864

Query Match 5.1%; Score 98; DB 4; Length 838;

Best Local Similarity 21.0%; Pred. No. 0.17;

Matches 78; Conservative 40; Mismatches 132; Indels 122; Gaps 16;

QY	26	TWLLPEKFSASETGPEAVTAFLGIFTTNEHITENAPTRGHVGGSSGNDPSLSYPLLIAI	85
Db	306	TYVTFGAFVDDIDLYPTASSGNLEAVKESDGERRTQPYASVTSMQREGSLKYNLV---	362
QY	86	LKDLETVVEVAERHFYGDKKWNYIILTEAMKAVIRIALFNSGYKMLQGETENEKDS	145
Db	363	-----AGRYHSD-----ASQRLMQLSLMRGFAHNLTLFG-----	395
QY	146	NQSESQ--NPAGNSGRNLGPHG-----LCNQNHHPNLEGRAMSALSFGQNAKTTTS	197
Db	396	LQSAAYHNLVSGAGQGLGEAGALSQLLNARDHQDDPIDGRAWLQYSKGFDRLGTOF	455
QY	198	STPGWRRRTHQOQAVIEPPMKERRRRTMSELTEKGVNGALFAIGE---VLXITR---	250
Db	456	TFTGW--RYSHQ-----RYATLSEAFSSPGSEDDQLQSDNNKATLQITASQSLP	502
QY	251	LIYVLFIR---KYGVRSWIPWALSISVDTLGMGLANSKWWGKSKQVH-----	296
Db	503	YDITLVSLDQDSY-----WSGGASQRTANNGI-----SSQVHGIAWSLSYSD	545
QY	297	---FSGPEKDELRRKLIWALYLMRDPFTTKYTRQKLESSQKKLELIPILGFLUTEKIVEL	353
Db	546	SRSSHGDEEDD-----EPHGDKKVVTLSL-----VPL-----SHL	575
QY	354	LEGAQSKRYTVIS	365



```
;
; PRIORITY APPLICATION DATA:
; APPLICATION NUMBER: US 07/832,117
; FILING DATE: 06-FEB-1992
; ATTORNEY/AGENT INFORMATION:
; NAME: Roseman, Catherine R
; REGISTRATION NUMBER: 34,240
; REFERENCE/DOCKET NUMBER: 8589
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (201) 235-6208
; TELEFAX: (201) 235-3500
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 3165 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; HYPOTHETICAL: NO
; ORIGINAL SOURCE:
; ORGANISM: Endothia parasitica (Cryptonectria)
; ORGANISM: parasitica
; STRAIN: EP713
; US-08-459-065-3

Query Match 4.6%; Score 89; DB 2; Length 3165;
Best Local Similarity 20.3%; Pred. No. 14;
Matches 82; Conservative 49; Mismatches 149; Indels 124; Gaps 18;

Qy 4 YKQW--VVRNREYVQSGFANGLTWLLPEKFSASEIGPEAVTAF-----LGITTT 52
Db 1757 FEQMPVFADRDIM-----LPKGVELYIKKEYISA---GTFPFISSFYKSRKALKQAGVMDV 1808

Qy 53 INEHIENAPTPRGHVSSGNDPSLSY-----PLLIALKDLTWTVEVAEHEF 100
Db 1809 IRKNALECI-----STGKYPTQFYHAFKSAQVPGQPLLAPRMKDLRTVVEDLSAY 1860

Qy 101 YGDKKNYIILTEAMKAVIRLALFRNSGYKMLLOGGETPNEEKDSNSESQN-----RAGN 156
Db 1861 MVDQ-----IFQIEANKRITWETYGAGSGMPLSQSMARIWDELHDLRKREGGQFIADATA 1916

Qy 157 SGRNLGP---HG-----LGNQNHHPNWNLEGRAMSALSFG-----ONARTTTSSTPGWS 203
Db 1917 YDSNCKPALFHGAGKLVELGFQNHPSG---KGRQPAQVQVQCKFAMQNAWVMGITEPSYT 1973

Qy 204 RRIHQOQAVIEPPMIKERR-----RTMSELITEKGVNGALFAIGEVLVITRPLIYVLFIRK 259
Db 1974 ALTFHVPDVAVRHELESKYPAHEATFSELLAHNNVN-----VTE 2012

Qy 260 YGVRSW-----IPWALSISVDTLGMGLLANSKWKWGEKSKQVHFSGPEKDELRR 307
Db 2013 WKRLSWEERKACARDMQAVPGKVFELTNDPALR---LOGSSWQGSFTTE-----PKRDE--- 2062

Qy 308 RKLWALYLMRDPFFTKYTRQKLESSQKLELIPLIGLFLTEKIV 351
Db 2063 -----FRKYQTYFYDSKAAMREDIKRIVFANREVI 2092

RESULT 5
US-08-459-065-3
; Sequence 3, Application US/08459065
; Patent No. 5882642
; GENERAL INFORMATION:
; APPLICANT: Choi, Gil Ho
; APPLICANT: Nuss, Donald Lee
; TITLE OF INVENTION: Genetically Engineered Transmissible
; TITLE OF INVENTION: Hypovirulence
; NUMBER OF SEQUENCES: 3
; CORRESPONDENCE ADDRESS:
; ADDRESSSEE: George M. Gould, Esq., Hoffmann-La Roche Inc.
; STREET: 340 Kingsland Street
; CITY: Nutley
; STATE: New Jersey
; COUNTRY: U.S.A.
; ZIP: 07110
```

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;
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/459,065
; FILING DATE: 02-JUN-1995
; CLASSIFICATION: 435
; PRIORITY APPLICATION DATA:
; APPLICATION NUMBER: US 07/832,117
; FILING DATE: 06-FEB-1992
; ATTORNEY/AGENT INFORMATION:
; NAME: Roseman, Catherine R
; REGISTRATION NUMBER: 34,240
; REFERENCE/DOCKET NUMBER: 8589
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (201) 235-6208
; TELEFAX: (201) 235-3500
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 3165 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; HYPOTHETICAL: NO
; ORIGINAL SOURCE:
; ORGANISM: Endothia parasitica (Cryptonectria)
; ORGANISM: parasitica
; STRAIN: EP713
; US-08-459-065-3

Query Match 4.6%; Score 89; DB 2; Length 3165;
Best Local Similarity 20.3%; Pred. No. 14;
Matches 82; Conservative 49; Mismatches 149; Indels 124; Gaps 18;

Qy 4 YKQW--VVRNREYVQSGFANGLTWLLPEKFSASEIGPEAVTAF-----LGITTT 52
Db 1757 FEQMPVFADRDIM-----LPKGVELYIKKEYISA---GTFPFISSFYKSRKALKQAGVMDV 1808

Qy 53 INEHIENAPTPRGHVSSGNDPSLSY-----PLLIALKDLTWTVEVAEHEF 100
Db 1809 IRKNALECI-----STGKYPTQFYHAFKSAQVPGQPLLAPRMKDLRTVVEDLSAY 1860

Qy 101 YGDKKNYIILTEAMKAVIRLALFRNSGYKMLLOGGETPNEEKDSNSESQN-----RAGN 156
Db 1861 MVDQ-----IFQIEANKRITWETYGAGSGMPLSQSMARIWDELHDLRKREGGQFIADATA 1916

Qy 157 SGRNLGP---HG-----LGNQNHHPNWNLEGRAMSALSFG-----ONARTTTSSTPGWS 203
Db 1917 YDSNCKPALFHGAGKLVELGFQNHPSG---KGRQPAQVQVQCKFAMQNAWVMGITEPSYT 1973

Qy 204 RRIHQOQAVIEPPMIKERR-----RTMSELITEKGVNGALFAIGEVLVITRPLIYVLFIRK 259
Db 1974 ALTFHVPDVAVRHELESKYPAHEATFSELLAHNNVN-----VTE 2012

Qy 260 YGVRSW-----IPWALSISVDTLGMGLLANSKWKWGEKSKQVHFSGPEKDELRR 307
Db 2013 WKRLSWEERKACARDMQAVPGKVFELTNDPALR---LOGSSWQGSFTTE-----PKRDE--- 2062

Qy 308 RKLWALYLMRDPFFTKYTRQKLESSQKLELIPLIGLFLTEKIV 351
Db 2063 -----FRKYQTYFYDSKAAMREDIKRIVFANREVI 2092

RESULT 6
5183745-2
; Patent No. 5183745
; APPLICANT: DANCHIN, ANTOINE; GLASER, PHILIPPE; KRIN, EVELYN;
; BARZU, OCTAVIEN; LADANT, DANIEL; ULLMAN, AGNES
; TITLE OF INVENTION: ADENYL CYCLASE DERIVATIVES AND THEIR
; BIOLOGICAL USES
; NUMBER OF SEQUENCES: 13
```

RESULT 8  
US-08-893-853-3  
; Sequence 3, Application US/08893853  
; Patent No. 5891994  
GENERAL INFORMATION:  
APPLICANT: Goldstein, Gideon  
TITLE OF INVENTION: Methods and Compositions for Impairing  
TITLE OF INVENTION: Multiplication of HIV-1  
NUMBER OF SEQUENCES: 85  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Howson and Howson  
STREET: Spring House Corporate Cntr., P.O. Box 457  
CITY: Spring House  
STATE: PA  
COUNTRY: USA  
ZIP: 19477  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/893,853  
FILING DATE:  
CLASSIFICATION:  
ATTORNEY/AGENT INFORMATION:  
NAME: Bak, Mary E.  
REGISTRATION NUMBER: 31,215  
REFERENCE/DOCKET NUMBER: GGP2USA  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 215-540-9200  
TELEFAX: 215-540-5818  
INFORMATION FOR SEQ ID NO: 3:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 302 amino acids  
TYPE: amino acid  
TOPOLOGY: linear

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; MOLECULE TYPE: protein
US-08-893-853-3

Query Match      4.6%; Score 87.5; DB 2; Length 302;
Best Local Similarity 24.1%; Pred. No. 0.49;
Matches 45; Conservative 19; Mismatches 62; Indels 61; Gaps 7;

QY 64 PRGHVSSGNDPSLSYPLLIALKDLTVVVAEAEHFYGDKKWNIILTEAMKAVIRLAL 123
DB 91 PWEHPGSSGVDPRLL-----EPWNHL-----GSSGVDHRLP 121

QY 124 FRNSGYKMLLOGETPNEE-----KDSNQSESQNRAGNSG---RNLGPHGLGN-QN 170
DB 122 WKHPGSGDLRQRRRTPDQSGRQRRRPPQDSSGRRRPPQSGRQRGPPQSGSGRQR 181

QY 171 HHNPWNLEG-----RAMSALSSFGQNRATTTSTPGWSRRIHQQAIVIEPP 216
DB 182 RRPQNSGRRRRSPQDSSGRRRRSPQNSGRRRTTPQSSGRRRAHONS-----236

QY 217 MIKERRR 223
DB 237 GSRQRRR 243

RESULT 9
US-09-113-921-3
; Sequence 3, Application US/09113921
; Patent No. 6193981
; GENERAL INFORMATION:
; APPLICANT: Goldstein, Gideon
; TITLE OF INVENTION: Methods and Compositions for Impairing
; NUMBER OF SEQUENCES: 124
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Howson and Howson
; STREET: Spring House Corporate Cntr., P.O. Box 457
; CITY: Spring House
; STATE: PA
; COUNTRY: USA
; ZIP: 19477
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/113,921
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/893,853
; FILING DATE: 11-JUL-1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Bak, Mary E.
; REGISTRATION NUMBER: 31,215
; REFERENCE/DOCKET NUMBER: GGP2AUSA
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 215-540-9200
; TELEFAX: 215-540-5818
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 302 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-09-113-921-3

Query Match      4.6%; Score 87.5; DB 3; Length 302;
Best Local Similarity 24.1%; Pred. No. 0.49;
Matches 45; Conservative 19; Mismatches 62; Indels 61; Gaps 7;

QY 64 PRGHVSSGNDPSLSYPLLIALKDLTVVVAEAEHFYGDKKWNIILTEAMKAVIRLAL 123
DB 91 PWEHPGSSGVDPRLL-----EPWNHL-----GSSGVDHRLP 121

QY 124 FRNSGYKMLLOGETPNEE-----KDSNQSESQNRAGNSG---RNLGPHGLGN-QN 170
DB 122 WKHPGSGDLRQRRRTPDQSGRQRRRPPQDSSGRRRPPQSGRQRGPPQSGSGRQR 181

QY 171 HHNPWNLEG-----RAMSALSSFGQNRATTTSTPGWSRRIHQQAIVIEPP 216
DB 182 RRPQNSGRRRRSPQDSSGRRRRSPQNSGRRRTTPQSSGRRRAHONS-----236

QY 217 MIKERRR 223
DB 237 GSRQRRR 243

RESULT 10
US-09-451-067-3
; Sequence 3, Application US/09451067
; Patent No. 6525179
; GENERAL INFORMATION:
; APPLICANT: Goldstein, Gideon
; TITLE OF INVENTION: Methods and Compositions for Impairing
; NUMBER OF SEQUENCES: 124
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Howson and Howson
; STREET: Spring House Corporate Cntr., P.O. Box 457
; CITY: Spring House
; STATE: PA
; COUNTRY: USA
; ZIP: 19477
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/451,067
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 09/113,921
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Bak, Mary E.
; REGISTRATION NUMBER: 31,215
; REFERENCE/DOCKET NUMBER: GGP2AUSA
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 215-540-9200
; TELEFAX: 215-540-5818
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 302 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-09-451-067-3

Query Match      4.6%; Score 87.5; DB 4; Length 302;
Best Local Similarity 24.1%; Pred. No. 0.49;
Matches 45; Conservative 19; Mismatches 62; Indels 61; Gaps 7;

QY 64 PRGHVSSGNDPSLSYPLLIALKDLTVVVAEAEHFYGDKKWNIILTEAMKAVIRLAL 123
DB 91 PWEHPGSSGVDPRLL-----EPWNHL-----GSSGVDHRLP 121

QY 124 FRNSGYKMLLOGETPNEE-----KDSNQSESQNRAGNSG---RNLGPHGLGN-QN 170
DB 122 WKHPGSGDLRQRRRTPDQSGRQRRRPPQDSSGRRRPPQSGRQRGPPQSGSGRQR 181

QY 171 HHNPWNLEG-----RAMSALSSFGQNRATTTSTPGWSRRIHQQAIVIEPP 216
DB 182 RRPQNSGRRRRSPQDSSGRRRRSPQNSGRRRTTPQSSGRRRAHONS-----236
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Qy	8	VWRNREYVQSGSFANGTLTWLLPEKFSASEIGPEAVTAFGLGFTTINHHIE--NAPTPR	65
Db	244	IW-NLSSLRAPSVRENKLGMP-----TNAFKTL--HLEVIDMGTR	284
Qy	66	GHVSSGNDPSLSPELLIAIKDLTVVEVAAEHFYGDKNYIILTEA--MKAVIRIA	122
Db	285	PHG-----KIPASVANASHL-TVIQIYGNLFSG-----IITSGFGLRLNLTLY	327
Qy	123	LFRNSGYKMLLOGGETPNEEKDSDQSESONRAGNSRNLGPHGLGNQNHHPNWNLEGRAM	182
Db	328	LWRN-----LFQ--TREQDDWGFISDLTNC-SKLOTLNLGNNLGGVLPNSFSNLS	375
Qy	183	SALSSFGONARTTSSTP---GWSRRIOHQOAVIEP-----PMIKERRRTWSELLT-EKG	233
Db	376	TSLSLFLALELNKATGSIKPKDIGNLIGLQHLVLCNNNFRGSLPSSLGRLKNLGLLAYENN	435
Qy	234	VNGAL-PAIGEVILITRPLIVLVLFIRKKGVSWPWIALSLSDVTLMGMLLANSKWWGKS	292
Db	436	LSSGIPAIAGN---LTELNIULLGTNKFS--GWIPYTLNLTNLLSLGLSTN-----	482
Qy	293	KQVHSGPEKDELRRRLIWALYLMRDPFFTKYTRQKLESS--OKKLELIPLIGF	345
Db	483	---NLSGPIPELNFN---IQTLSTM-----INVSKNNLEGSIPQEIghLKNLVEFHAE	531
Qy	346	LTEKIVELLEGAQ-SRITY-----ISGS	367
Db	532	RLSGKPIITLGDQCLLYLYLQNLLSGS	560

RESULT 13

US-08-587-680A-4

Sequence 4, Application US/08587680A

Patent No. 5977434

GENERAL INFORMATION:

APPLICANT: Ronald, Pamela C.

APPLICANT: Wang, Guo-Liang

APPLICANT: Song, Wen-Yuang

APPLICANT: Szabo, Veronique

TITLE OF INVENTION: Procedures and Materials for Conferring

TITLE OF INVENTION: Disease Resistance in Plants

NUMBER OF SEQUENCES: 27

CORRESPONDENCE ADDRESS:

ADDRESSEE: Townsend and Townsend and Crew LLP

STREET: Two Embarcadero Center, Eighth Floor

CITY: San Francisco

STATE: California

COUNTRY: USA

ZIP: 94111-3834

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: PatentIn Release #1.0, Version #1.30

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/587,680A

FILING DATE: 17-JAN-1996

CLASSIFICATION: 800

Prior APPLICATION DATA:

APPLICATION NUMBER: US 08/373,375

FILING DATE: 17-JAN-1995

Prior APPLICATION DATA:

APPLICATION NUMBER: US 08/475,891

FILING DATE: 07-JUN-1995

Prior APPLICATION DATA:

APPLICATION NUMBER: US 60/004,645

FILING DATE: 29-SEP-1995

Prior APPLICATION DATA:

APPLICATION NUMBER: US 08/567,375

FILING DATE: 04-DEC-1995

ATTORNEY/AGENT INFORMATION:

NAME: Bastian, Kevin L.

REGISTRATION NUMBER: 34,774

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;
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/036,987A
; FILING DATE: 09-MAR-1998
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Stuart, Donald R
; REGISTRATION NUMBER: 28,479
; REFERENCE/DOCKET NUMBER: 50,608
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (317)337-4816
; TELEFAX: (317)337-4847
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 2595 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-09-036-987A-2

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Best Local Similarity 19.3%; Pred. No. 24;
Matches 78; Conservative 51; Mismatches 138; Indels 137; Gaps 17;

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Db 1812 DHAGRLSAVPAMRRN-----QDEAQKVMTALAHVHVRGGAVDWRSPFAGTRAKQIELPT 1865
Qy 122 ALFRNSGYKMLQGGTPENEKDSNQSESONRAGNSGNLPHGIGLNQNHHPNWL----- 177
Db 1866 YAFQQRQYWL-----NALRESS-----AGDMGRRVEAKFWGAVEHEDVESLARVL 1910
Qy 178 -----EGRAMSALSSEF-----GQNRATTTT----- 197
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Qy 198 STPGWSR-----RIHQQAQVI-----EPMIKERRRT-----MSELLT 230
Db 1971 APHGWSSEPEVVDVCTALRARGASVVLVEADPDPTSFQDRVRTLCSGLPDLVGVLSMLCL 2030
Qy 231 EKGVNGALFAIGEVLVITRPLIYVLFIKYGVRSWIPWALSLSV-----DTLGMGL- 281
Db 2031 EESVLPFGSAVSRGFALTVELVRLRAAGATARLMLLTCCGVSVDGVPVRPAQALAWGLG 2090
Qy 282 -----LANSKWWG-----EKSQVHFSGPEKDELRRR 308
Db 2091 RVVGLHPDPWNGGLIDIPVLDFEDAQERLSIVLAGLDEDEVAIR 2134

Search completed: September 22, 2004, 12:26:50
Job time : 35 secs
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; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/036,987A
; FILING DATE: 09-MAR-1998
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Stuart, Donald R
; REGISTRATION NUMBER: 28,479
; REFERENCE/DOCKET NUMBER: 50,608
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (317)337-4816
; TELEFAX: (317)337-4847
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 2595 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-09-036-987A-2

Query Match      4.4%; Score 85.5; DB 3; Length 2595;
Best Local Similarity 19.3%; Pred. No. 24;
Matches 78; Conservative 51; Mismatches 138; Indels 137; Gaps 17;

Qy 7 WWRNRYVQSGFSGFANGLTWLLP-EKFSASEIGPEAVTAFLGIFTTINEHIENAPTPT 65
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Qy 198 STPGWSR-----RIHQQAQVI-----EPMIKERRRT-----MSELLT 230
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Qy 231 EKGVNGALFAIGEVLVITRPLIYVLFIKYGVRSWIPWALSLSV-----DTLGMGL- 281
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Qy 282 -----LANSKWWG-----EKSQVHFSGPEKDELRRR 308
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RESULT 15
US-09-370-700-2
; Sequence 2, Application US/09370700
; Patent No. 6274350
; GENERAL INFORMATION:
; APPLICANT: Baltz, Richard H
; APPLICANT: Broughton, Mary C
; APPLICANT: Crawford, Kathryn P
; APPLICANT: Madduri, Krishnamurthy
; APPLICANT: Treadway, Patti J
; APPLICANT: Turner, Jan R
; APPLICANT: Waldron, Clive
; TITLE OF INVENTION: Biosynthetic Genes For Spinosyn Insecticide
; FILE REFERENCE: 50489 DIV1
; CURRENT APPLICATION NUMBER: US/09/370,700
; CURRENT FILING DATE: 1999-08-09
; EARLIER APPLICATION NUMBER: US 09/36987
; EARLIER FILING DATE: 1998-03-09
; NUMBER OF SEQ ID NOS: 39
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 2
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Run on: September 23, 2004, 15:58:19 ; Search time 769 Seconds  
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Scoring table: IDENTITY\_NUC

Gapop 10.0 , Gapext 1.0

Searched: 3337386 seqs, 2532474692 residues

Total number of hits satisfying chosen parameters: 6674772

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published Applications NA:\*

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- 2: /cgn2\_6/ptodata/1/pubpna/PCT\_PUB.seq.\*
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- 10: /cgn2\_6/ptodata/1/pubpna/US09B\_PUBCOMB.seq.\*
- 11: /cgn2\_6/ptodata/1/pubpna/US09C\_PUBCOMB.seq.\*
- 12: /cgn2\_6/ptodata/1/pubpna/US09\_NEW\_PUB.seq.\*
- 13: /cgn2\_6/ptodata/1/pubpna/US10A\_PUBCOMB.seq.\*
- 14: /cgn2\_6/ptodata/1/pubpna/US10B\_PUBCOMB.seq.\*
- 15: /cgn2\_6/ptodata/1/pubpna/US10C\_PUBCOMB.seq.\*
- 16: /cgn2\_6/ptodata/1/pubpna/US10\_NEW\_PUB.seq.\*
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- 19: /cgn2\_6/ptodata/1/pubpna/US60\_PUBCOMB.seq.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

## SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	410.8	27.7	1505	15	US-10-268-441-7
2	410.4	27.7	1505	15	US-10-268-441-9
3	248.4	16.7	2320	15	US-10-268-441-5
4	244.6	16.5	1468	15	US-10-268-441-13
5	242.4	16.3	1677	9	US-09-938-842A-3729
6	242.4	16.3	1677	11	US-09-938-842A-3729
7	230.8	15.6	1707	15	US-10-268-441-1
8	207	14.0	1052	13	US-10-424-599-2706
9	198.2	13.4	693	13	US-10-424-599-95953
10	157.2	10.6	1172	13	US-10-425-114-1242
11	152.8	10.3	681	17	US-10-437-963-28995
12	136.6	9.2	702	17	US-10-767-701-9913
13	130.8	8.8	659	17	US-10-767-701-9962
14	121.2	8.2	1525	17	US-10-437-963-28951
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					Sequence 9, Appli
					Sequence 5, Appli
					Sequence 13, Appl
					Sequence 3729, Ap
					Sequence 3729, Ap
					Sequence 1, Appli
					Sequence 2706, Ap
					Sequence 95953, A
					Sequence 1242, Ap
					Sequence 28995, A
					Sequence 9913, Ap
					Sequence 9962, Ap
					Sequence 28951, A

15	88.8	6.0	309	13	US-10-424-599-142081	Sequence 142081,
16	79.8	5.4	429	15	US-10-268-441-3	Sequence 3, Appli
17	68.4	4.6	461	15	US-10-268-441-11	Sequence 11, Appl
18	56.4	3.8	253	9	US-09-923-876-5626	Sequence 5626, Ap
19	56.4	3.8	253	11	US-09-923-876-5626	Sequence 5626, Ap
20	46	3.1	608	10	US-09-814-353-5190	Sequence 5190, Ap
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22	45.8	3.1	880	15	US-10-198-846-7060	Sequence 7060, Ap
23	44.2	3.0	517	17	US-10-021-323-11054	Sequence 11054, A
24	43.8	3.0	1973	16	US-10-374-780A-1885	Sequence 1885, Ap
25	43.4	2.9	10329	15	US-10-311-455-2096	Sequence 2096, Ap
26	43	2.9	963	15	US-10-023-896-17	Sequence 17, Appl
27	43	2.9	1055	16	US-10-264-049-129	Sequence 129, Appl
28	43	2.9	3673778	15	US-10-312-841-1	Sequence 1, Appli
29	42.4	2.9	578	17	US-10-021-323-15656	Sequence 15656, A
30	42.2	2.8	333	9	US-09-969-373-459	Sequence 459, App
31	42.2	2.8	333	9	US-09-969-373-460	Sequence 460, App
32	42.2	2.8	488	13	US-10-424-599-54177	Sequence 54177, A
33	42.2	2.8	855	17	US-10-332-859-533	Sequence 533, App
34	42	2.8	444	9	US-09-764-869-533	Sequence 533, App
35	42	2.8	444	9	US-09-764-869-533	Sequence 533, App
36	42	2.8	444	15	US-10-091-483-34	Sequence 34, Appl
37	42	2.8	444	15	US-10-091-483-34	Sequence 34, Appl
38	42	2.8	444	16	US-10-227-577-533	Sequence 533, App
39	42	2.8	506	10	US-09-918-995-7423	Sequence 7423, Ap
40	41.8	2.8	480	17	US-10-437-963-28984	Sequence 28984, A
41	41.8	2.8	2448	17	US-10-437-963-28984	Sequence 28984, A
42	41.6	2.8	547	17	US-10-021-323-6195	Sequence 6195, Ap
43	41.6	2.8	6408	15	US-10-311-455-1093	Sequence 1093, Ap
44	41.6	2.8	9770	15	US-10-311-455-5	Sequence 5, Appli
45	41.4	2.8	416	13	US-10-424-599-71220	Sequence 71220, A

## ALIGNMENTS

## RESULT 1

US-10-268-441-7  
; Sequence 7, Application US/10268441  
; Publication No. US20030084475A1  
; GENERAL INFORMATION:  
; APPLICANT: Caboon, Edgar B.  
; APPLICANT: Coughlan, Sean J.  
; APPLICANT: Helentjaris, Timothy George  
; APPLICANT: Jung, Rudolf  
; APPLICANT: Li, Chun Ping  
; APPLICANT: Nichols, Scott  
; APPLICANT: Ripp, Kevin  
; APPLICANT: Zheng, Peizhong  
; TITLE OF INVENTION: NUCLEIC ACID FRAGMENTS AND PROTEINS AFFECTING STORAGE  
; TITLE OF INVENTION: ORGANELLE  
; TITLE OF INVENTION: FORMATION AND METHODS OF USE  
; FILE REFERENCE: BB1392 US NA  
; CURRENT APPLICATION NUMBER: US/10/268,441  
; CURRENT FILING DATE: 2002-10-09  
; PRIOR APPLICATION NUMBER: US/09/672,607  
; PRIOR FILING DATE: 2000-09-28  
; PRIOR APPLICATION NUMBER: 60/157209  
; PRIOR FILING DATE: 1999-09-30  
; NUMBER OF SEQ ID NOS: 18  
; SOFTWARE: Microsoft Office 97  
; SEQ ID NO 7  
; LENGTH: 1505  
; TYPE: DNA  
; ORGANISM: Glycine max  
; FEATURE:  
; NAME/KEY: unsure  
; LOCATION: (59)  
; FEATURE:  
; NAME/KEY: unsure  
; LOCATION: (60)  
; FEATURE:  
; NAME/KEY: unsure





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; PRIOR APPLICATION NUMBER: US/09/672,607
; PRIOR FILING DATE: 2000-09-28
; PRIOR APPLICATION NUMBER: 60/157209
; PRIOR FILING DATE: 1999-09-30
; NUMBER OF SEQ ID NOS: 18
; SOFTWARE: Microsoft Office 97
; SEQ ID NO 5
; LENGTH: 2320
; TYPE: DNA
; ORGANISM: Oryza sativa
; US-10-268-441-5

Query Match      16.7%; Score 248.4; DB 15; Length 2320;
Best Local Similarity 54.1%; Pred. No. 3.8e-62;
Matches 619; Conservative 0; Mismatches 486; Indels 39; Gaps 4;

QY 118 CTCATGGAAGCTTTAAGCAATGGGTTTGGAGAAATAGAGAGTATGTACAATCCTTTGG 177
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QY 238 ACCAAGAGCAGTAACGGCTTTTGGGCAATATCACAAAGATAATGAACACATAATGA 297
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RESULT 3
US-10-268-441-5
; Sequence 5, Application US/10268441
; Publication No. US20030084475A1
; GENERAL INFORMATION:
; APPLICANT: Cahoon, Edgar B.
; APPLICANT: Coughlan, Sean J.
; APPLICANT: Helentjaris, Timothy George
; APPLICANT: Jung, Rudolf
; APPLICANT: Li, Chun Ping
; APPLICANT: Nichols, Scott
; APPLICANT: Ripp, Kevin
; APPLICANT: Zheng, Peizhong
; TITLE OF INVENTION: NUCLEIC ACID FRAGMENTS AND PROTEINS AFFECTING STORAGE
; TITLE OF INVENTION: ORGANELLE
; TITLE OF INVENTION: FORMATION AND METHODS OF USE
; FILE REFERENCE: BB1392 US NA
; CURRENT APPLICATION NUMBER: US/10/268,441
; CURRENT FILING DATE: 2002-10-09
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Db 1350 ATAA 1353

## RESULT 4

US-10-268-441-13  
; Sequence 13, Application US/10268441  
; Publication No. US20030084475A1  
; GENERAL INFORMATION:  
; APPLICANT: Cahoon, Edgar B.  
; APPLICANT: Coughlan, Sean J.  
; APPLICANT: Helentjaris, Timothy George  
; APPLICANT: Jung, Rudolf  
; APPLICANT: Li, Chun Ping  
; APPLICANT: Nichols, Scott  
; APPLICANT: Ripp, Kevin  
; APPLICANT: Zheng, Peizhong  
; TITLE OF INVENTION: NUCLEIC ACID FRAGMENTS AND PROTEINS AFFECTING STORAGE  
; TITLE OF INVENTION: ORGANELLE  
; FILE REFERENCE: BB1392 US NA  
; CURRENT APPLICATION NUMBER: US/10/268,441  
; CURRENT FILING DATE: 2002-10-09  
; PRIOR APPLICATION NUMBER: US/09/672,607  
; PRIOR FILING DATE: 2000-09-28  
; PRIOR APPLICATION NUMBER: 60/157209  
; PRIOR FILING DATE: 1999-09-30  
; NUMBER OF SEQ ID NOS: 18  
; SOFTWARE: Microsoft Office 97  
; SEQ ID NO 13  
; LENGTH: 1468  
; TYPE: DNA  
; ORGANISM: Triticum aestivum  
US-10-268-441-13

Query Match 16.5%; Score 244.6; DB 15; Length 1468;  
Best Local Similarity 54.1%; Pred. No. 3, Re-61;  
Matches 677; Conservative 0; Mismatches 504; Indels 70; Gaps 6;

QY 112 CTGAAGCTCAATGGAAGCTTATAGCAATCGGTTTGGAGAAATAGAGAGTATGTACAATC 171  
Db 175 CCGAGTGCCTATGAGGCTTACAAAGTCTGGTGGGAGAAACCGGACCTCGTCCGCTC 234  
QY 172 CTTTGGATCTTTGCCAAGGATGATGCTGCTCTCTGAGAGTTTCTGCTTCAGA 231  
Db 235 CCTGAGTCCCTGCCAACGGGTGACATGATCTCTGAGCGCTTCGCTAACTCCGA 294  
QY 232 GATTGGACCAAGACAGTAAAGCTTTTGGGCATATTCACAAAGATTAATGAACACAT 291  
Db 295 GATTGCCCGGAAGCAGTATATGCACTTCTGGGCATTTGATGCTCTGTCACACGATAT 354  
QY 292 AATTGAAATGCTCCAAACCTCGTGCCCATGTTGGATCTTCGCGGAATGATCCATCCCT 351

Db 355 AATTGA-----GACACCAACTGATGGTCACTCACTGGCCTCCAAAGGAACAATCTAT 405  
QY 352 TTCTTATCCACTACTCAATCGCCATCTCTCAAGGATTTGAAAACTGTTGTGGAGTGGCAGC 411  
Db 406 CCCATGGGCTCTTGTGTATCTATACTCAAGGATGTCGAAGCAGTTGTTAGTGGCCGC 465  
QY 412 TGAACACTTCTATGGAGACAA---AATGGAACCTACATTTATTTCTCACTGAGCTATGAA 468  
Db 466 CCAGCACTTTCTGGAGATGATCGAAATGGGGCTTCTTGTCTGTTACAGAAGCAGTAA 525  
QY 469 GGCTGTCAATAGGTTAGCTTTGTCGGAATAGTGGGTATAGATGCTTCTTCAAGAGG 528  
Db 526 AGCATGTCTCAGTTAGCCGCTTTCAGGAGAAATGGCTACAGGATGCTCTTACAGAGG 585  
QY 529 GGAACACCTTAATCAGGAGAAAGATTCTAACCAATCCAGTTCGCAA-----574  
Db 586 GGAGGTGAAACCAAGAGGAGGATGTTCTTTGAAGACAAATCAGGAGTCAAGACTAATGG 645  
QY 575 -----AATAGAGCTGGTAATTCGGGTAGAAATCTCGGCGCTCA 612  
Db 646 AGTCCAGTAATCTATCCGGTCAATGGACATTCCTCAAAATGGCCATTTGGATCATGCTGA 705  
QY 613 TGTCTTTGGAACCAAAATCATCAATCCATGGAACCTTGAAGGAGCGGCGATGCTGC 672  
Db 706 TGGTCCGATGGAACCACTGGAATTTATCTAAGACTCTGGAGGGAAGCAGTAGCTGC 765  
QY 673 TTTAAGTTCAATTTGGTTCAGAAATGCAAGAACCAACATCTTCTACCCCGGTTGGTCTCG 732  
Db 766 TTTAAACAGGTTTGGTCAGAAATGCAAGATGTTGTCAGATCCCA-----810  
QY 733 AAGAAATTCACATCAGCAAGCAGTTATAGACCTCCAAATGATCAAGGAGAGCGCAAGAC 792  
Db 811 GTGGATGAGCAGGCTCCAACTTCTCTCTGTTCTCTCTGTGATGAGATTGAGAGCAAC 870  
QY 793 GATGTCGAGCTACTACTCAGAGAGGTTTAAATGAGAGCTGTTTTCGATGTTGAGGT 852  
Db 871 TCTCGCAACCATTTGGTCTTTCTAAGGATTTCTGGCGCTTATCTATTTAGGGAGGC 930  
QY 853 TCTTTACATAACGAGACCGCTCAATTTACGTTCTTTTTCATCAGAAAATATGAGTCCGATC 912  
Db 931 CGTCCACATATTCAGACCACTTGTATAGCTACTCTTGTAGTAAAGTTTGGCATCAATC 990  
QY 913 TTGGATTCCTTGGCTATATCGCTTTCTGTGGACACACTGGGATGGGTCTTTTGCAA 972  
Db 991 TTGGACCCGTTGGTGTCTCACTAGCTGTGGAGCTCGCAAGGCTTGGCATTCATTCGCA 1050  
QY 973 TTCGAAAGTGGTGGGAGAGAGAGCAAGCAAGTCCAT---TTCTCAGGACCTGAAAGGA 1029  
Db 1051 TGCAACAGATCTGAATCATAGAGCTGGGAAAGTTTCACTCTCTGCTCTGAGAGGA 1110  
QY 1030 TGAGCTGAGGAGACGAAAACCTGATATGGGCAATTTGTACCTCATGAGAGATCCATTTCTAC 1089  
Db 1111 TGAGTTGAAAAGCGGAAAATGATGTGGCACTTTAATGTCATGAGAGATCCATTTCTTGC 1170  
QY 1090 CAAGTACACAAAGCAGAGCTGAAAGCTCTCAAAGAGCTGGAACCTAATTTCCATGAT 1149  
Db 1171 CAGCTACACAGGCTGCTCTTTGAGAAGCTGAGAAAGCATTAGTCCGCTGCGCTTAT 1230  
QY 1150 CGGATTTCTCACAGAGAGATTTGGAGCTTTTGGAGGAGCTCAGTCAAGGTACACTTA 1209  
Db 1231 CGGTTTTCACAGGTAAGCTCGTGAACATTTTGGAGGGGCTCAGTCCGGGTATACATA 1290  
QY 1210 CATATCGGATCGTGAAGTTAAAGCTTTTACTTATATGTTTATATGCAACGGAAGATATT 1269  
Db 1291 TACATCAGGCTCGT-----AGAGGAGATTGGGATAGATTACCTGCTTCTGCTGGAGAC 1346  
QY 1270 GCATTTGTTGGAATGCTTTTGTAGATCAACAAAGCTCTCAGATTTCTT 1320  
Db 1347 TTCTTGTGATCTGCCATCTACTGGACTTTTGTGGTTCTCTGATTTTGCTT 1397

## RESULT 5

US-09-938-842A-3729

```
; Sequence 3729, Application US/09938842A
; Patent No. US20020160378A1
; GENERAL INFORMATION:
; APPLICANT: Harper, Jeff
; APPLICANT: Kreps, Joel
; APPLICANT: Wang, Xun
; APPLICANT: Zhu, Tong
; TITLE OF INVENTION: STRESS-REGULATED GENES OF PLANTS, TRANSGENIC PLANTS CONTAINING
; FILE REFERENCE: SCRIPI300-3
; CURRENT APPLICATION NUMBER: US/09/938,842A
; CURRENT FILING DATE: 2001-08-24
; PRIOR APPLICATION NUMBER: US 60/227,866
; PRIOR FILING DATE: 2000-08-24
; PRIOR APPLICATION NUMBER: US 60/264,647
; PRIOR FILING DATE: 2001-01-16
; PRIOR APPLICATION NUMBER: US 60/300,111
; PRIOR FILING DATE: 2001-06-22
; NUMBER OF SEQ ID NOS: 5379
; SEQ ID NO 3729
; TYPE: DNA
; ORGANISM: Arabidopsis thaliana
US-09-938-842A-3729

Query Match      16.3%; Score 242.4; DB 9; Length 1677;
Best Local Similarity 99.6%; Pred. No. 1.9e-60;
Matches 243; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1226 GGTAAAGCGTTTACTTATGTTTATATGCAACGGAAGAATATGCCAATGTTGGAATGC 1285
DB 1 GGTAAAGCGTTTACTTATGTTTATATGCAACGGAAGAATATGCCAATGTTGGAATGC 60

QY 1286 TTTTATGATCATCAAAAGGCTCTACAGATTCTTAGGGAATGTTTCAGGCTTTTGTTA 1345
DB 61 TTTTTCAGATCATCAAAAGGCTCTACAGATTCTTAGGGAATGTTTCAGGCTTTTGTTA 120

QY 1346 GAAATTGTGTTTATGCAACAGGTAGAGAACATACCATACAGATGATCTGAAGAGA 1405
DB 121 GAAATTGTGTTTATGCAACAGGTAGAGAACATACCATACAGATGATCTGAAGAGA 180

QY 1406 TAAGCTTCTCTATGCTTAAAGAAATGACCGATACGATACGATACGATACGATACGAT 1465
DB 181 TAAGCTTCTCTATGCTTAAAGAAATGACCGATACGATACGATACGATACGATACGAT 240

QY 1466 TAAA 1469
DB 241 TAAA 244

RESULT 7
US-10-268-441-1
; Sequence 1, Application US/10268441
; Publication No. US20030084475A1
; GENERAL INFORMATION:
; APPLICANT: Cahoon, Edgar B.
; APPLICANT: Coughlan, Sean J.
; APPLICANT: Helentjaris, Timothy George
; APPLICANT: Jung, Rudolf
; APPLICANT: Li, Chun Ping
; APPLICANT: Nichols, Scott
; APPLICANT: Ripp, Kevin
; APPLICANT: Zheng, Peizhong
; TITLE OF INVENTION: NUCLEIC ACID FRAGMENTS AND PROTEINS AFFECTING STORAGE
; TITLE OF INVENTION: ORGANELLE
; TITLE OF INVENTION: FORMATION AND METHODS OF USE
; FILE REFERENCE: B01392 US NA
; CURRENT APPLICATION NUMBER: US/10/268,441
; CURRENT FILING DATE: 2002-10-09
; PRIOR APPLICATION NUMBER: US/09/672,607
; PRIOR FILING DATE: 2000-09-28
; PRIOR APPLICATION NUMBER: 60/157209
; PRIOR FILING DATE: 1999-09-30
; NUMBER OF SEQ ID NOS: 18
; SOFTWARE: Microsoft Office 97
; SEQ ID NO 1
; LENGTH: 1707
; TYPE: DNA
; ORGANISM: Zea mays
US-10-268-441-1

Query Match      15.6%; Score 230.8; DB 15; Length 1707;
Best Local Similarity 53.3%; Pred. No. 5.2e-57;
Matches 605; Conservative 0; Mismatches 492; Indels 39; Gaps 4;
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; Sequence 3729, Application US/09938842A
; Patent No. US20020160378A1
; GENERAL INFORMATION:
; APPLICANT: Harper, Jeff
; APPLICANT: Kreps, Joel
; APPLICANT: Wang, Xun
; APPLICANT: Zhu, Tong
; TITLE OF INVENTION: STRESS-REGULATED GENES OF PLANTS, TRANSGENIC PLANTS CONTAINING
; FILE REFERENCE: SCRIPI300-3
; CURRENT APPLICATION NUMBER: US/09/938,842A
; CURRENT FILING DATE: 2001-08-24
; PRIOR APPLICATION NUMBER: US 60/227,866
; PRIOR FILING DATE: 2000-08-24
; PRIOR APPLICATION NUMBER: US 60/264,647
; PRIOR FILING DATE: 2001-01-16
; PRIOR APPLICATION NUMBER: US 60/300,111
; PRIOR FILING DATE: 2001-06-22
; NUMBER OF SEQ ID NOS: 5379
; SEQ ID NO 3729
; TYPE: DNA
; ORGANISM: Arabidopsis thaliana
US-09-938-842A-3729

Query Match      16.3%; Score 242.4; DB 9; Length 1677;
Best Local Similarity 99.6%; Pred. No. 1.9e-60;
Matches 243; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1226 GGTAAAGCGTTTACTTATGTTTATATGCAACGGAAGAATATGCCAATGTTGGAATGC 1285
DB 1 GGTAAAGCGTTTACTTATGTTTATATGCAACGGAAGAATATGCCAATGTTGGAATGC 60

QY 1286 TTTTATGATCATCAAAAGGCTCTACAGATTCTTAGGGAATGTTTCAGGCTTTTGTTA 1345
DB 61 TTTTTCAGATCATCAAAAGGCTCTACAGATTCTTAGGGAATGTTTCAGGCTTTTGTTA 120

QY 1346 GAAATTGTGTTTATGCAACAGGTAGAGAACATACCATACAGATGATCTGAAGAGA 1405
DB 121 GAAATTGTGTTTATGCAACAGGTAGAGAACATACCATACAGATGATCTGAAGAGA 180

QY 1406 TAAGCTTCTCTATGCTTAAAGAAATGACCGATACGATACGATACGATACGATACGAT 1465
DB 181 TAAGCTTCTCTATGCTTAAAGAAATGACCGATACGATACGATACGATACGATACGAT 240

QY 1466 TAAA 1469
DB 241 TAAA 244

RESULT 6
US-09-938-842A-3729
; Sequence 3729, Application US/09938842A
; Publication No. US20040009476A9
; GENERAL INFORMATION:
; APPLICANT: Harper, Jeff
; APPLICANT: Kreps, Joel
; APPLICANT: Wang, Xun
; APPLICANT: Zhu, Tong
; TITLE OF INVENTION: STRESS-REGULATED GENES OF PLANTS, TRANSGENIC PLANTS CONTAINING
; FILE REFERENCE: SCRIPI300-3
; CURRENT APPLICATION NUMBER: US/09/938,842A
; CURRENT FILING DATE: 2001-08-24
; PRIOR APPLICATION NUMBER: US 60/227,866
; PRIOR FILING DATE: 2000-08-24
; PRIOR APPLICATION NUMBER: US 60/264,647
; PRIOR FILING DATE: 2001-01-16
; PRIOR APPLICATION NUMBER: US 60/300,111
; PRIOR FILING DATE: 2001-06-22
; NUMBER OF SEQ ID NOS: 5379
; SEQ ID NO 3729
; LENGTH: 1677
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Db 340 ACCAAGCAGTATATGCACTACTGGTATTTGTTGAGTTCTGTCATCAGCACATTAATGA 399  
Qy 298 AATGCTCCACACCTCTGGCCATGTTGGATCTTCGGGAATGATCCATCCCTTTCTTA 357  
Db 400 -----TGCGCCACTGAGATCACTATTTGCTTCCCAAGGAACTATATCCCATG 450  
Qy 358 TCCACTACTATCGCCATCTCAAGATTTCGAACTGTTGGAAGTGGCAGCTGACAA 417  
Db 451 GGGTCTTGTCTCTGTAAGAGATGCGAGCGGTGTTGAGGTGCTGCCAGCA 510  
Qy 418 CTTCTATGGAGACAA---AAAATGGAACACTATTTCTCACTGAAGCTATGAAGGTGT 474  
Db 511 CTTTGTGGCGATGATCGAAGTGGAGCTTCTTGGAAATTAATTGAGTAATGGTAAGGT 570  
Qy 475 CATTAGGTAGCTTGTTCGGAATAGTGGGTATAAGATGCTTCTTCAAGAGGGGAAC 534  
Db 571 TGTCAAGTTAGCTGCTTTTCGGGAGTGGATGACATGCAAGAAATGGTCAACAACTATGGCCAAAGG 630  
Qy 535 ACCTAATGAGGAGAAAGATTCTAACCAATCGAGTCCGCAAAATAGAGCTGTAATTCGG 594  
Db 631 GGTAATGAAGAGAGGTGACCGTCTTGGAAATTAATTGAGTAATGGTAAGGT 690  
Qy 595 TAGAAATCTCGGGCTCATGCTTCTGGAAACCAAAATCATATATCCATGGAACCTTGA 654  
Db 691 ACCAGCCATCTATCCGATGATGACATGCAAGAAATGGTCAACAACTATGGCCAAAGG 750  
Qy 655 AGGACGGCGATGCTGCTTAACTTCAATTTGGTCAAGATGCAAGAACAACTATTC 714  
Db 751 TCTGGATGTAATAATGGAATTTGATCTAAGATCTTGAAGATCTTGAAGAAAGACGTAGCTGCTTT 810  
Qy 715 TACCCCGGGTTG-----GTCTCGAAGAAATCAACATCAGCA 750  
Db 811 GAACAATTTGGTGAGAACGCAAGATGATCTCTGATCCTATGTTGATGCGAGGCCCA 870  
Qy 751 AGCAGTTATAGAGCTCAATGATCAAGGAGCGGCAAGAACGATGTCGAGCTACTTAC 810  
Db 871 ACCTACTCCTGAGCCAACTGTGATGTTGCGAGAACCAACATTTGACAAATTTGGTC 930  
Qy 811 TGAGAAGGGTGTAAATCGAGCGTGTGTTGCGATGTTGAGTTCCTTGGGCTAT 930  
Db 931 TACTAAAGCGGTACTCGGCGCTTGTTGTTTGGGGAGGTGTTTCACATATTCAGGCC 990  
Qy 871 GCTCATTTAGCTTCTTTTATCAGAAATATGAGTCCGATCTTGGATTCCTTGGGCTAT 930  
Db 991 ACTTGATATGATCTTCTGATCAGAAATTTGGAATCAATCATGACCCCGTGGCTAGT 1050  
Qy 931 ATCGCTTCTGTGACACACTGGGATGGGTCTTTTGGCAATTCGAATTCGAAGTGGTGGGAGA 990  
Db 1051 GTCGCTAGCTGTGAACTCAAGTCTAGGCATCCATTCCTCCATGCAACCGATCTGAATCA 1110  
Qy 991 GAAGAGCAAGTCCAT---TTCTCAGGACCTGAAAGGATGAGTGGAGGACGAAA 1047  
Db 1111 CAGATTAGGAAAGTGCATCAGCTCAGTTCTCGGAAAGGACGAGTTGAAAGGCGAAA 1170  
Qy 1048 ACTGATATGGGCTTTTACCTCATGAGATCCATTTCTTCCAAAGTACACAAGGAGAA 1107  
Db 1171 GATGATGGGCTCTTATGTGATGAGATCTTCTTCTTGGCAGTTACGAGAGGTCA 1230  
Qy 1108 GCTGGAAGCTCTCAAAAGAGCTGGAATTAATTCATGATCGGATTCCTCAAGAGAA 1167  
Db 1231 CCTCCTGAAGGCTGAACAGTTTCTGAATCCGGTCCCATGATTGGCTTCTTACAGGAA 1290  
Qy 1168 GATTGTGGAGCTTTTGGAGGAGCTCAGTCAAGGTACACTTACATATCGGATCGT 1223  
Db 1291 ACTTGTAGACTACTGAGGGGATTCAGAGATACAGTACACATCAGGTTTCAT 1346

RESULT 8

US-10-424-599-2706/c  
; Sequence 2706, Application US/10424599  
; Publication No. US20040031072A1  
; GENERAL INFORMATION:

; APPLICANT: La Rosa Thomas J  
; APPLICANT: Kowalic David K  
; APPLICANT: Zhou Yihua  
; APPLICANT: Cao Yongwei  
; TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With  
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement  
; FILE REFERENCE: 38-21(53223)B  
; CURRENT APPLICATION NUMBER: US/10/424,599  
; CURRENT FILING DATE: 2003-04-28  
; NUMBER OF SEQ ID NOS: 285684  
; SEQ ID NO 2706  
; LENGTH: 1052  
; TYPE: DNA  
; ORGANISM: Glycine max  
; FEATURE:  
; NAME/KEY: unsure  
; LOCATION: (1)..(1052)  
; OTHER INFORMATION: unsure at all n locations  
; FEATURE:  
; OTHER INFORMATION: Clone ID: PAT\_MRT3847\_102449C.1  
US-10-424-599-2706

Query Match 14.0%; Score 207; DB 13; Length 1052;  
Best Local Similarity 62.1%; Pred. No. 4.3e-50;

Matches 346; Conservative 0; Mismatches 205; Indels 6; Gaps 1;

Qy 675 TAAGTTCATTGGTTCAGAAATGCAAGAACAAACAATCTTCTACCCCGGTTGGTCTCGAA 734  
Db 1052 TATCTGCTTTGGTTAGATTGGAGAAAAGCAAGGGGTGAGATCCAGTGTGGTTCGCA 993  
Qy 735 GAATTCAACATCAGCAGCAGTATTAGAGCTCAATGATCAAGGAGGCGAAGACGA 794  
Db 992 GGGTTGAACACCAACAGCAACTATGGAGCTCAAACTTCAAGGGCGGAGGACCAAC 933  
Qy 795 TGCCGAGCTACTACTGAGAAGGGTGTAAATGAGAGGTTGTTTGCATTTGGATGGGTTC 854  
Db 932 TTCTCACCATTGTTCTGAAAGGGTCTTTGCGGGCTCTGTTTTTATTTGGAGAGTTC 873  
Qy 855 TTTACATACGAGACCGCTCATTTACGTTCTTTTTCATCAGAAATATGAGTCCGATCTT 914  
Db 872 TACTTATTAGTAGACCATTATTATGTTTATTATTCGAAATATGGTATTTCGGTCA 813  
Qy 915 GGATTCCTTGGGCTATATCGTTCTTCTGAGACACATCGGGATGGGTCTTCTTGCA--- 970  
Db 812 GGAACCTTGGTTCCTTCTGCTGGCTATTGATTCATAGGAAACAGTATTCTTCTCACTCA 753  
Qy 971 --AATTGCAAGTGGTGGGAGAGAGCAAGCAAGTCCATTTCTCAGGACCTGAAAAGG 1028  
Db 752 TTACATCGTCAGTGGCTGGTGGGAAAGCCGATGTTTCTCTCTGCTGCTAGAAAAGG 693  
Qy 1029 ATGAGCTGAGGAGACGAAATCTGATATGGCATTTACCTCATGAGAGATCCATTTCTCA 1088  
Db 692 ATGAGGTTAAACCGCGGAAAGCTGCTATTGTTCTTTACCTAATGAGAGATCCATTTTCA 633  
Qy 1089 CCAAGTACACAGGCGAGAGCTGGAAGCTCTCAAGAGAGCTGGAACCTAATTTCCATTGA 1148  
Db 632 GCAGTATCTAGGCAAGAGCTTGAAGCAACGAGAGAAAGTTTGGAGCCCTATTCTCTGCA 573  
Qy 1149 TCGGATTCCTCAGAGAAAGATTGAGGCTTTTGGAGGAGCTCAGTCAAGTACACTTT 1208  
Db 572 TAGGATTTCTCAGCAAAACTTTTGAATTTATTTGAGGCTCAACACGATACACTTT 513  
Qy 1209 ACATATCGGGATCGTGA 1225  
Db 512 ACATGTCAGGATCGTGA 496

RESULT 9

US-10-424-599-95953  
; Sequence 95953, Application US/10424599  
; Publication No. US20040031072A1  
; GENERAL INFORMATION:  
; APPLICANT: La Rosa Thomas J

APPLICANT: Kovalic David K  
APPLICANT: Zhou Yihua  
APPLICANT: Cao Yongwei  
TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With  
TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement  
FILE REFERENCE: 38-21(53223)B  
CURRENT APPLICATION NUMBER: US/10/424,599  
CURRENT FILING DATE: 2003-04-28  
NUMBER OF SEQ ID NOS: 285684  
SEQ ID NO 95953  
LENGTH: 693  
TYPE: DNA  
ORGANISM: Glycine max  
FEATURE:  
OTHER INFORMATION: Clone ID: PAT\_MRT3847\_57657C.1  
US-10-424-599-95953

Query Match 13.4%; Score 198.2; DB 13; Length 693;  
Best Local Similarity 63.9%; Pred. No. 1.3e-47;  
Matches 374; Conservative 0; Mismatches 188; Indels 23; Gaps 4;  
QY 120 CAATGGAGCTTATAAGCAATGGGTTGGAGAAATAGAGATATGTACAAATCCTTTGGAT 179  
Db 109 CTATGGAGCTTATAAGAGATGGGTGAGGAGCAACAAAGAGTTTGTGCACCTCCATGGAGT 168  
QY 180 CCTTTGCCAAGGATGATGGCTGCTTCTGAGAGTTTCTGCTTCAGAGATTGGAC 239  
Db 169 CTTTGGCCAAATGGATGATGGCTTCTTCTGAAACGGTTTCTGAAATCAGAGATTGGAC 228  
QY 240 CAGAAGCAGTAAACGGCTTTTGGGCATATTACAAACGATATAATGAACACATAATTGAAA 299  
Db 229 CTGAAGCAGTAAACCACTTCTGGAAATCAACAGCTCTCAATGAACATAATTGATA 288  
QY 300 ATGCTTCAACACTCGTGCCCATGTTGGATTTCCGGGAATGATCCCTTTCTTATTC 359  
Db 289 CAGCTCTCTAAGC-----AAAATATTACAGGCTCTGTCAAGCCTTATTTCGTTTCTTATC 342  
QY 360 CACTACTCATGCCATCTCAGGATTTGGAACCTTTGTGGAAGTGCAGTGAACACT 419  
Db 343 CATTAATGCTTATCTGCAATTAAGGATTTGGAACATTAAGTTGAAGTTGTGGCAGCAAT 402  
QY 420 TCTATGG--AGACAAAATGGAACACTACATTATTCTCAGTGAAGCTATGAAG----- 469  
Db 403 ACTATGTTGATGATGAAGAAATGGAATTTCTTGTCTGTACTGAAGCAACCAAGTAAGCAG 462  
QY 470 ----GCTGCTCATAGTTAGCTTGTTCGGGAATAGTGGGTATAGATGCTTTCTTCAAGG 525  
Db 463 AATAATGTTAGCTCGGTTATCTTGTTCGGGAAGTGGATATAGATGCTCTCAAGG 522  
QY 526 AGGGGAACACTAATGAGGAGAAAGATTTCAACCAATCCGAGTCGCA--AATAGAGC 582  
Db 523 AGGGGAACACTCAATGATGAGGAGCAATTCAGATAGTTTACTTTCGCAACATCATATGGG 582  
QY 583 TGGTAATTCGGGTAGAAATCTCGGCTCATGCTTGTGAAACCAAAATCATCATATCC 642  
Db 583 CTTAAGCCGATGTGCATCATAGGCTTGTATATGAAACCAATCTTGTGTGCAACCC 642  
QY 643 ATGGAACCTTGAAGAGCGGCGATGCTCTCTTAAGTTCAATTTGG 687  
Db 643 AATGAATCAGGAAGGAGAGCAATTTATCTCTTTTGGTTAGATTGG 687

## RESULT 10

US-10-425-114-1242  
Sequence 1242, Application US/10425114  
Publication No. US2004003488A1  
GENERAL INFORMATION:  
APPLICANT: Liu, Jingdong  
APPLICANT: Zhou Yihua  
APPLICANT: Kovalic, David K.  
APPLICANT: Screen, Steven E.  
APPLICANT: Tabaska, Jack E.  
APPLICANT: Cao, Yongwei

TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With  
TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement  
FILE REFERENCE: 38-21(53313)B  
CURRENT APPLICATION NUMBER: US/10/425,114  
CURRENT FILING DATE: 2003-04-28  
NUMBER OF SEQ ID NOS: 73128  
SEQ ID NO 1242  
LENGTH: 1172  
TYPE: DNA  
ORGANISM: Zea mays  
FEATURE:  
OTHER INFORMATION: Clone ID: 700105418\_FLI  
US-10-425-114-1242

Query Match 10.6%; Score 157.2; DB 13; Length 1172;  
Best Local Similarity 52.0%; Pred. No. 2.7e-35;  
Matches 474; Conservative 0; Mismatches 403; Indels 35; Gaps 4;  
QY 342 ATCCATCCCTTTCTTATCCACTACTCATCGCATCTCTCAAGGATTTGAAAATCTGTGTGG 401  
Db 1 AACAACTATCCCATGGGCTTCTGTCTGTACTAAAGGATGTGAGCGGTGTG 60  
QY 402 AAGTGGCAGCTGAACACTTCTATGGAGACAA---AAATGGAACATACATTTCTCACTG 458  
Db 61 AGGTTGCTGCCCAGCACTTTTGGCGATGATCGAAAGTGGAGCTTCTTCTGCTGTACAG 120  
QY 459 AAGCTATCAAGCTGTCTATTAGGTAGCTTTGTTCCGGAATAGTGGGTATAGATGCTTC 518  
Db 121 AAGCAGTGAAGTGTCT-----AGGTTAGCTGCTTTTCCGAGAGTGGATACAGATGCTCT 175  
QY 519 TTCAAGGAGGGGAAACACCTAATGAGGAGAAAGATTCTAACCAATCCGAGTCCGAAAATA 578  
Db 176 TACAAGGAGGGGAGTGTGTAATGAAGAAGAGGTGACCGTTCTTTGAAAATAGTTATGGAG 235  
QY 579 GAGCTGTAATTCGGGTAGAAATCTCGGCTCTATGCTTTGGAAACCAAAATCATCATATA 638  
Db 236 TAAATGTTAATGAGTATACAGCCATCTATCCGATGGATGGACATGCAGAAAATGGTCA 295  
QY 639 ATCCATGAACCTTGAAGGAGGGCGGATGCTGCTTTAAAGTTCAATTTGCTCAGAAATGCAA 698  
Db 296 AAATATGCGCAAGGCTCGATGTTAAATGATTTGATCTTAAGAGTCTTGAGAAA 355  
QY 699 GAACAAACAACTTTCTACCCCGGTGGT-----CTCGAA 734  
Db 356 GAGCAGTAGTCTTTGAACAAATTTGTTGAGAACGCAAGATGATGTCTGATCTATGT 415  
QY 735 GAATTAACATCAGCAAGCTTATAGAGCTCCATGATCAAGGAGGCGCAAGACGA 794  
Db 416 GGATTCGAGGCTCCAACTCTCTGAGCCAACTGTGATGGTTCCGAGAAAGCCAACTT 475  
QY 795 TGTCCGAGCTACTTACTGAGAAAGGTTTAATGAGCGCTTTGTTCCGATTTGTTGAGGTTTC 854  
Db 476 TGGCAAGTATTTGTTCTCTAAAGCGGTACTTGGCGCTTGTGTTTGTAGGGAGTTG 535  
QY 855 TTACATAACGAGACCGCTCATTTACGTTCTTTTTCATCAGAAAATATGAGTCCGATCTT 914  
Db 536 TTCATATATCAGGCACTTGTATATGTACTTCTGATCAGAAAAGTTTGGAAATAAATCGT 595  
QY 915 GGATTCCTTGGCTATATCGCTTTCTGTGGACACTCGGGATGGTCTTCTTTCGAAAT 974  
Db 596 GGACCCCTGGCTAGTGTGCTAGCTGTGGAACCTCACAAGTCTAGGCGTCCATTCCTCATG 655  
QY 975 CGAAGTGTGGGAGAGAGCAAGCAAGTCCAT---TTCTCAGAACCTGAAAAGGATG 1031  
Db 656 CAACCGATATGAATCACAGATTTAGAAAAGTGCATCAGTCTGCTGTGAGAGGATG 715  
QY 1032 AGCTGAGGAGACGAAAATGATATGGCATTTGATCTCATGAGATCCATTTCTCACC 1091  
Db 716 AGTTGAAAAGGCGAAAGATGATGTGGCTCTTTATGTGATGAGATCCTTTCTTTGCCA 775  
QY 1092 AGTACACAGGAGAGCTGGAAGCTCTCAAAAAGAGCTGGAATTAATTTCCATTTGATCG 1151  
Db 776 GTTACAGCAGCGTCACCTCTCCCTGAGGCTGACAGGTTCTGAATCCGTTGCCATTTG 835



QY 1152 GATTCTCTCAGACAGAGATTGTGGAGCTTTTGGAGGGAGCTCAGTCACGGTACACTTACA 1211  
Db 836 GCTTCCTTACAGGGAACTTGTAGAGCTACTGGAGGGGATTTCAGACGAGATACACGTACA 895  
QY 1212 TATCGGATCGT 1223  
Db 896 CATCAGTTTCAT 907

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RESULT 11
US-10-437-963-28995
; Sequence 28995, Application US/10437963
; Publication No. US20040123343A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; APPLICANT: Wu, Wei
; APPLICANT: Boukharov, Andrei A.
; APPLICANT: Barbazov, Brad
; APPLICANT: Li, Ping
; TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53221)B
; CURRENT APPLICATION NUMBER: US/10/437,963
; CURRENT FILING DATE: 2003-05-14
; NUMBER OF SEQ ID NOS: 204966
; SEQ ID NO 28995
; LENGTH: 681
; TYPE: DNA
; ORGANISM: Oryza sativa
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MFT4530_3353C.1
US-10-437-963-28995

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## RESULT 13

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US-10-767-701-9962
; Sequence 9962, Application US/107677701
; Publication No. US20040172684A1
; GENERAL INFORMATION:
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof For Plant Improvement
; FILE REFERENCE: 38-21(53535)B
; CURRENT APPLICATION NUMBER: US/10767,701
; CURRENT FILING DATE: 2004-01-29
; NUMBER OF SEQ ID NOS: 63128
; SEQ ID NO 9962
; LENGTH: 659
; TYPE: DNA
; ORGANISM: Sorghum bicolor
; FEATURE:
; OTHER INFORMATION: Clone ID: SORBI-28MAY03-CLUS43806_1
US-10-767-701-9962

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QY 1152 GATTCTCTCAGACAGAGATTGTGGAGCTTTTGGAGGGAGCTCAGTCACGGTACACTTACA 1211  
Db 836 GCTTCCTTACAGGGAACTTGTAGAGCTACTGGAGGGGATTTCAGACGAGATACACGTACA 895  
QY 1212 TATCGGATCGT 1223  
Db 896 CATCAGTTTCAT 907

```

RESULT 11
US-10-437-963-28995
; Sequence 28995, Application US/10437963
; Publication No. US20040123343A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; APPLICANT: Wu, Wei
; APPLICANT: Boukharov, Andrei A.
; APPLICANT: Barbazov, Brad
; APPLICANT: Li, Ping
; TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53221)B
; CURRENT APPLICATION NUMBER: US/10/437,963
; CURRENT FILING DATE: 2003-05-14
; NUMBER OF SEQ ID NOS: 204966
; SEQ ID NO 28995
; LENGTH: 681
; TYPE: DNA
; ORGANISM: Oryza sativa
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MFT4530_3353C.1
US-10-437-963-28995

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RESULT 12

US-10-767-701-9913  
; Sequence 9913, Application US/10767701

Query Match  
Best Local Similarity 59.5%; Pred. No. 1.3e-27;  
Matches 263; Conservative 0; Mismatches 167; Indels 12; Gaps 2;

QY 118 CTCATGGAAGCTTATAGCAATGGTTTGGAGAAATAGAGATGATGACAAATCCTTTGG 177

Db 224 CGCCATGGAGCGGTACAAGCTCTGGGTGCGGAGGAACAGGACCTCGTCCGCCCTCGA 283

QY 178 ATCCCTTCCCAACGGAATGACATGGCTCTTCTCTGAGAAGTTTCTGCTTCAGAGATTGG 237

Db 284 GTCCCTCCCAACGCGTTGACATGATCTCCCGAGCGCTTTCGCAACTCGAGATCGC 343

QY 238 ACCAGAAGCAGTAACGGCTTTTTCGGGATATTCACACGATTAATGACACATATTTGA 297

Db 344 GCCGGAAGCAGTATATGCACTACTGGGTGTTGTGAGTTCTGTCAATCAGCAATAAATTGA 403

QY 298 AAATGCTCCAAACACCTCGTGGCAGTTGGATCTTCCGGGAATGATCCATCCCTTCTTA 357

Db 404 -----TGGCCCACTGAGAACTCACTATTGCTCCCAAGGAGCAATCTATCCCATG 454

QY 358 TCCACTACTCATCGGCATCTCTCAAGGATTTGGAATCTGTTGGAAGTGGCAGCTGAACA 417

Db 455 GGGTCTTGTTCTCTGTACTAAAGGATGTGGAGCAGTTGTTGAGTTGCTGCCCCAGCA 514

QY 418 CTTCTATGGAGACAA---AAATGGAACTACATATTCTCACTGAAGCTATGAAGGCTGT 474

Db 515 CTTTGTGGCGATGATCGCAAGTGGAGCTTTCTTCTGTTTACGGAAGCAGTGAAGACAG 574

QY 475 CATTAGGTAGCTTGTTCGGAATAGTGGGTATAGATGCTTCTTCAAGGAGGGGAAC 534

Db 575 TGTGAGTTAGCTGCTTTTCGGGAGTGGATCAAGATGCTCTTACAGGAGGGGAGGT 634

QY 535 ACCTAATGAGGAGAAAGATTCT 556

Db 635 GGCAAATGAAGAAGGTGACT 656

RESULT 14

US-10-437-963-28951

; Sequence 28951, Application US/10437963

; Publication No. US20040123343A1

; GENERAL INFORMATION:

; APPLICANT: La Rosa, Thomas J.

; APPLICANT: Kovalic, David K.

; APPLICANT: Zhou, Yihua

; APPLICANT: Cao, Yongwei

; APPLICANT: Wu, Wei

; APPLICANT: Boukharov, Andrey A.

; APPLICANT: Barbazuk, Brad

; APPLICANT: Li, Ping

; TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With

; FILE OF INVENTION: Plants and Uses Thereof for Plant Improvement

; FILE REFERENCE: 38-21(53221)B

; CURRENT APPLICATION NUMBER: US/10/437,963

; CURRENT FILING DATE: 2003-05-14

; NUMBER OF SEQ ID NOS: 204966

; SEQ ID NO 28951

; LENGTH: 1525

; TYPE: DNA

; ORGANISM: Oryza sativa

; FEATURE:

; OTHER INFORMATION: Clone ID: PAT\_MRT4530\_3349C.1

US-10-437-963-28951

Query Match  
Best Local Similarity 50.9%; Pred. No. 1.6e-24;  
Matches 339; Conservative 0; Mismatches 343; Indels 36; Gaps 3;

QY 182 TTTGCCAACGGATTGACATGGCTCTTCCTGAGAGAGTTTCTGCTTCAGAGATTGGACCA 241

Db 91 TTTTATCAGGGGTAACTGATGATCTCTCTGAGCGCTTTCCCAACTGAGATCGCACCA 150

Query Match  
Best Local Similarity 59.5%; Pred. No. 1.3e-27;  
Matches 263; Conservative 0; Mismatches 167; Indels 12; Gaps 2;

QY 242 GAACAGTAACGGCTTTTGGGCATATTACAAACGATAAATGAACACATATTAATTTGAAAT 301

Db 151 GAACAGTATATGATTTCTGGGTATCGTGAGTTCTGTCATCAGCACATAATTTGA---- 206

QY 302 GCTCCAAACCTCGTGGCCATGTTGGATCTTTCCGGGAATGATCCATCCCTTTCTATATCCA 361

Db 207 ----AAGCCAACTGATGGTTCAGACATTTGGCCTCCAAAGAGCAATCTATCCCATGGTCC 261

QY 362 CTACTCATCGCATCTCTCAGGATTTGGAACTCTGTTGGAAGTGGGAGCTGGAACACATTC 421

Db 262 CTTGTTGTTCTAGTACTTAAGGATTTAGAGCAGTTGTTGAGTGGCTGCCACGACATTT 321

QY 422 TATGGAGACAA---AAAATGGAACTACATTTATCTCACTGAAGCTATGAAGCGTGTCAAT 478

Db 322 GTTGGAGATGATCGCAATGGAGCTTTCTGCTGTTACAGAAGCTGTGAAAGCAGGTGTC 381

QY 479 AGTTAGCTTTGTTCCGGAATAGTGGGTATGAAGTGTCTTCTTCAAGGAGGGGAACACCT 538

Db 382 AGTTAGCTGCTTTCCGGGAGAGTGGCTTACAAGATGCTCTTACAAGGAGGAGAGTGGCA 441

QY 539 AATGAGGAGAAAGATTCTTAACCAATCCGAGTCCGAAATAGAGCTGGTAAATTCGGGTAGA 598

Db 442 AATGAAGAGGAGATTAATATTCTTGATGAAAATTTTGGAGCCAAAAGTAATGGAGTACCA 501

QY 599 AATCTCGGGCTCATGGTCTTTGGAACCAAAATCATATAATCCATGAACTTGGAAAGGA 658

Db 502 GTCATTTATCCGATGANTGGCAATTTCCAAAATGCTCATGGGTGTCATCTAATGGTCTT 561

QY 659 CGGGGATGTCTGCTTTAAGTTTCATTGGTCAGATGCAAGAACAAACACATCTTCTTACC 718

Db 562 GATGAAAGGCTGGATTTGTATCAAGAGTCTCGGAGGGAAGAGCTGTAGTCTCTTAAAC 621

QY 719 CCCGGTTG-----GTCTCGAAGAAATTCACATCAGCAAGCA 754

Db 622 AGTTTGGCCAGATGCAAGATGACGTCCAGTCCATGTGATGAAGAGGCTCTGCCT 681

QY 755 GTTATAGAGCTTCCAAATGATCAAGGAGGCGGAAGAACGATGTCGAGCTACTTACTGAG 814

Db 682 CCTCTGATCTCTCTGCGATGGTGGTGAAGAGCCAACTTTGGCAAGTATTTGGTCTGCT 741

QY 815 AAGGTGTTAATGGAGCGTTGTTTCGGATTGGTGAGGTTCTTTACATAACGAGACCGCTC 874

Db 742 AAAGGAATTTACGGGCGGTATTTTGTAGGAGAGTGTGCCACATATTCAGACCACITG 801

QY 875 ATTTAGCTCTTTTTCATCAGAAAATATGGAGTCCGATCTTGGATTCCTTTGGG 926

Db 802 CTATAGCTACTTTTGTATCAAAAAATTTGGAATCAATCATGACCCCATGGG 853

RESULT 15

US-10-424-599-142081

; Sequence 142081, Application US/10424599

; Publication No. US20040031072A1

; GENERAL INFORMATION:

; APPLICANT: La Rosa, Thomas J

; APPLICANT: Kovalic, David K

; APPLICANT: Zhou, Yihua

; APPLICANT: Cao, Yongwei

; TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With

; FILE OF INVENTION: Plants and Uses Thereof for Plant Improvement

; FILE REFERENCE: 38-21(53223)B

; CURRENT APPLICATION NUMBER: US/10/424,599

; CURRENT FILING DATE: 2003-04-28

; NUMBER OF SEQ ID NOS: 285684

; SEQ ID NO 142081

; LENGTH: 309

; TYPE: DNA

; ORGANISM: Glycine max

; FEATURE:

; OTHER INFORMATION: Clone ID: PAT\_MRT3847\_99312C.1

US-10-424-599-142081

Query Match  
6.0%; Score 88.8; DB 13; Length 309;

Best Local Similarity 75.0%; Pred. No. 2.2e-15;  
Matches 111; Conservative 0; Mismatches 37; Indels 0; Gaps 0;

QY	120	CAATGAAGCTTATAGCAATGGTTTGGAGAAATAGAGAGTATGTACAATCCTTTGGAT	179
Db	156	CTATGGAGCTTATAGAAATGGTGAGGCAAAACAAGAGTTGTGCACCTCACTGTGAT	215
QY	180	CCTTTGCCAACGGATTGACATGGCTGCTTCCTGAGAAAGTTTCTGCTTCAGAGATTGGAC	239
Db	216	CTTTGGCCAAATGATTGACATGGCTTCTTCCTGAACGTTTCTGAAATCAAAGATTGGAC	275
QY	240	CAGAGCAGTACGGCTTTTGGGCAT	267
Db	276	CTGAAGCAATAACAACCATTCGGGAAT	303

Search completed: September 23, 2004, 18:05:45  
Job time : 780 secs

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Result No.	Score	Query		Length	DB	ID	Description
		Match	%				
1	55.4	3.7	275	4	US-09-313-294A-3574		Sequence 3574, Appl
2	42	2.8	832	4	US-09-621-976-2813		Sequence 2813, Appl
C 3	40.4	2.7	603	3	US-09-385-982-293		Sequence 293, Appl
C 4	40.2	2.7	199	4	US-09-222-575-125		Sequence 125, Appl
C 5	40.2	2.7	199	4	US-09-389-681-125		Sequence 125, Appl
C 6	40.2	2.7	199	4	US-09-620-405B-125		Sequence 125, Appl
C 7	40.2	2.7	199	4	US-09-339-338-125		Sequence 125, Appl
C 8	40.2	2.7	199	4	US-09-433-826B-125		Sequence 125, Appl
C 9	40.2	2.7	199	4	US-09-604-287A-125		Sequence 125, Appl
C 10	40.2	2.7	199	4	US-09-285-480-125		Sequence 125, Appl
C 11	40.2	2.7	199	4	US-09-834-753-125		Sequence 125, Appl
C 12	39.6	2.7	1361	4	US-09-489-847-64		Sequence 64, Appl
C 13	39.4	2.7	441	4	US-09-601-537-10		Sequence 10, Appl
C 14	39.4	2.7	4121	4	US-09-601-537-9		Sequence 9, Appl
C 15	39	2.6	396	4	US-09-640-173-18		Sequence 18, Appl
C 16	39	2.6	396	4	US-09-713-550-18		Sequence 18, Appl
C 17	38.8	2.6	474	4	US-09-621-976-18033		Sequence 18033, A
C 18	38.8	2.6	7218	1	US-08-232-463-14		Sequence 14, Appl
C 19	38	2.6	7286	3	US-09-331-581-3		Sequence 3, Appl
C 20	38	2.6	7938	3	US-09-331-581-14		Sequence 14, Appl
C 21	37.2	2.5	396	4	US-09-640-173-10		Sequence 10, Appl
C 22	37.2	2.5	396	4	US-09-713-550-10		Sequence 10, Appl
C 23	37.2	2.5	1117	3	US-09-247-373B-33		Sequence 33, Appl
C 24	37.2	2.5	3871	2	US-08-599-455B-3		Sequence 3, Appl
C 25	37.2	2.5	3871	3	US-09-069-781B-3		Sequence 3, Appl
C 26	37.2	2.5	3871	4	US-09-137-132-3		Sequence 3, Appl
C 27	37.2	2.5	3871	4	US-08-864-564A-3		Sequence 3, Appl



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RESULT 5
US-09-389-681-125/c
; Sequence 125, Application US/09389681A
; Patent No. 6518237
; GENERAL INFORMATION:
; APPLICANT: Yuqiu, Jiang
; APPLICANT: Dillon, Davin C.
; APPLICANT: Mitcham, Jennifer L.
; APPLICANT: Xu, Jiangchun
; TITLE OF INVENTION: COMPOSITIONS FOR THE TREATMENT AND
; FILE REFERENCE: 210121.470C3
; CURRENT APPLICATION NUMBER: US/09/389,681A
; CURRENT FILING DATE: 1999-09-02
; NUMBER OF SEQ ID NOS: 463
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 125
; LENGTH: 199
; TYPE: DNA
; ORGANISM: Homo sapien
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (1)...(199)
; OTHER INFORMATION: n = A,T,C or G
US-09-389-681-125

Query Match      2.7%; Score 40.2; DB 4; Length 199;
Best Local Similarity 52.8%; Pred. No. 0.024;
Matches 84; Conservative 0; Mismatches 75; Indels 0; Gaps 0;

QY 1323 GGAATGTTTCAGGCTTTTGTAGAAATGTTTATTCGACAGGTAGAGACATAACC 1382
DB 181 GGAATCGTTTCTTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTT 122
QY 1383 ATAGACAGATGTATCTGAAGAGATAAGCTTCTCTATGCTTAAAGAAATGGACCGATACGA 1442
DB 121 ATTAGCATTNTGAAAGAGAAAGTAAATGTAAGTTTAAATGTAAGTATTAACAAAGTTTTC 62
QY 1443 ATAAACAAGCATCATTAAGATTAAAAAAGGCGCTTCCCC 62
DB 61 TTAGAATAGCAAAAAAAGGCGCTTCCCC 23

RESULT 6
US-09-620-405B-125/c
; Sequence 125, Application US/09620405B
; Patent No. 6528054
; GENERAL INFORMATION:
; APPLICANT: Jiang, Yuqiu
; APPLICANT: Dillon, Davin C.
; APPLICANT: Mitcham, Jennifer L.
; APPLICANT: Xu, Jiangchun
; APPLICANT: Harlocker, Susan L.
; APPLICANT: Hepler, William T.
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
; FILE REFERENCE: 210121.470C8
; CURRENT APPLICATION NUMBER: US/09/620,405B
; CURRENT FILING DATE: 2000-07-20
; NUMBER OF SEQ ID NOS: 495
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 125
; LENGTH: 199
; TYPE: DNA
; ORGANISM: Homo sapien
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (1)...(199)
; OTHER INFORMATION: n = A,T,C or G
US-09-620-405B-125

Query Match      2.7%; Score 40.2; DB 4; Length 199;
Best Local Similarity 52.8%; Pred. No. 0.024;
Matches 84; Conservative 0; Mismatches 75; Indels 0; Gaps 0;

QY 1323 GGAATGTTTCAGGCTTTTGTAGAAATGTTTATTCGACAGGTAGAGACATAACC 1382
DB 181 GGAATCGTTTCTTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTT 122
QY 1383 ATAGACAGATGTATCTGAAGAGATAAGCTTCTCTATGCTTAAAGAAATGGACCGATACGA 1442
DB 121 ATTAGCATTNTGAAAGAGAAAGTAAATGTAAGTTTAAATGTAAGTATTAACAAAGTTTTC 62
QY 1443 ATAAACAAGCATCATTAAGATTAAAAAAGGCGCTTCCCC 62
DB 61 TTAGAATAGCAAAAAAAGGCGCTTCCCC 23

RESULT 7
US-09-339-338-125/c
; Sequence 125, Application US/09339338A
; Patent No. 6573368
; GENERAL INFORMATION:
; APPLICANT: Yuqiu, Jiang
; APPLICANT: Dillon, Davin C.
; APPLICANT: Mitcham, Jennifer L.
; APPLICANT: Xu, Jiangchun
; TITLE OF INVENTION: COMPOSITIONS FOR THE TREATMENT AND
; FILE REFERENCE: 210121.470C2
; CURRENT APPLICATION NUMBER: US/09/339,338A
; CURRENT FILING DATE: 1999-06-23
; NUMBER OF SEQ ID NOS: 315
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 125
; LENGTH: 199
; TYPE: DNA
; ORGANISM: Homo sapien
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (1)...(199)
; OTHER INFORMATION: n = A,T,C or G
US-09-339-338-125

Query Match      2.7%; Score 40.2; DB 4; Length 199;
Best Local Similarity 52.8%; Pred. No. 0.024;
Matches 84; Conservative 0; Mismatches 75; Indels 0; Gaps 0;

QY 1323 GGAATGTTTCAGGCTTTTGTAGAAATGTTTATTCGACAGGTAGAGACATAACC 1382
DB 181 GGAATCGTTTCTTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTT 122
QY 1383 ATAGACAGATGTATCTGAAGAGATAAGCTTCTCTATGCTTAAAGAAATGGACCGATACGA 1442
DB 121 ATTAGCATTNTGAAAGAGAAAGTAAATGTAAGTTTAAATGTAAGTATTAACAAAGTTTTC 62
QY 1443 ATAAACAAGCATCATTAAGATTAAAAAAGGCGCTTCCCC 62
DB 61 TTAGAATAGCAAAAAAAGGCGCTTCCCC 23

RESULT 8
US-09-433-826B-125/c
; Sequence 125, Application US/09433826B
; Patent No. 6579973
; GENERAL INFORMATION:
; APPLICANT: Jiang, Yuqiu
; APPLICANT: Dillon, Davin C.
; APPLICANT: Mitcham, Jennifer L.
; APPLICANT: Xu, Jiangchun
; APPLICANT: Harlocker, Susan L.
; TITLE OF INVENTION: COMPOSITIONS FOR THE TREATMENT AND
; FILE REFERENCE: 210121.470C4
US-09-433-826B-125/c
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Query Match      2.7%; Score 40.2; DB 4; Length 199;
Best Local Similarity 52.8%; Pred. No. 0.024;
Matches 84; Conservative 0; Mismatches 75; Indels 0; Gaps 0;

QY 1323 GGAATGTTTCAGGCTTTTGTAGAAATGTTTATTCGACAGGTAGAGACATAACC 1382
DB 181 GGAATCGTTTCTTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTT 122
QY 1383 ATAGACAGATGTATCTGAAGAGATAAGCTTCTCTATGCTTAAAGAAATGGACCGATACGA 1442
DB 121 ATTAGCATTNTGAAAGAGAAAGTAAATGTAAGTTTAAATGTAAGTATTAACAAAGTTTTC 62
QY 1443 ATAAACAAGCATCATTAAGATTAAAAAAGGCGCTTCCCC 62
DB 61 TTAGAATAGCAAAAAAAGGCGCTTCCCC 23

RESULT 9
US-09-433-826B-125/c
; Sequence 125, Application US/09433826B
; Patent No. 6579973
; GENERAL INFORMATION:
; APPLICANT: Jiang, Yuqiu
; APPLICANT: Dillon, Davin C.
; APPLICANT: Mitcham, Jennifer L.
; APPLICANT: Xu, Jiangchun
; APPLICANT: Harlocker, Susan L.
; TITLE OF INVENTION: COMPOSITIONS FOR THE TREATMENT AND
; FILE REFERENCE: 210121.470C4
US-09-433-826B-125/c
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; CURRENT APPLICATION NUMBER: US/09/433,826B  
; CURRENT FILING DATE: 1999-11-03  
; NUMBER OF SEQ ID NOS: 474  
; SOFTWARE: FastSeq for Windows Version 3.0  
; SEQ ID NO 125  
; LENGTH: 199  
; TYPE: DNA  
; ORGANISM: Homo sapien  
; FEATURE:  
; NAME/KEY: misc.feature  
; LOCATION: (1)...(199)  
; OTHER INFORMATION: n = A,T,C or G  
US-09-433-826B-125

Query Match 2.7%; Score 40.2; DB 4; Length 199;

Best Local Similarity 52.8%; Pred. No. 0.024;  
Matches 84; Conservative 0; Mismatches 75; Indels 0; Gaps 0;

QY 1323 GGAATGGTTTCAGGCTTTTGTAGAAATTTGTTTATTGCAACAGGTAGAGACATAACC 1382  
|||||  
Db 181 GGAATCGTTCTTTTGTGTTGTTGTTTATGTTTATTAGTATAACAAAGTTTTTT 122  
|||||  
QY 1383 ATAGACAGATGATCTGAAGAGATAAGCTTCTATGCTAAAGAAATGGACCGATACGA 1442  
|||||  
Db 121 ATTAGCATTTTGAAGAAGGAAAGTAAATGTACAAAGTTTATAAAAGGGGCGCTTCCCC 62  
|||||  
QY 1443 ATAAACAAGCATCATTAAGATTAAAAA 1481  
|||||  
Db 61 TTAGATAGCAAAAAA 23  
|||||

## RESULT 9

US-09-604-287A-125/c

; Sequence 125, Application US/09604287A

; Patent No. 6586572

; GENERAL INFORMATION:

; APPLICANT: Jiang, Yuqiu

; APPLICANT: Dillon, Davin C.

; APPLICANT: Mitcham, Jennifer L.

; APPLICANT: Xu, Jiangchun

; APPLICANT: Harlocker, Susan L.

; APPLICANT: Hepler, William T.

; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND

; FILE REFERENCE: 210121.470C7

; CURRENT APPLICATION NUMBER: US/09/604,287A

; CURRENT FILING DATE: 2000-06-22

; NUMBER OF SEQ ID NOS: 489

; SOFTWARE: FastSeq for Windows Version 3.0

; SEQ ID NO 125

; LENGTH: 199

; TYPE: DNA

; ORGANISM: Homo sapien

; FEATURE:

; NAME/KEY: misc.feature

; LOCATION: (1)...(199)

; OTHER INFORMATION: n = A,T,C or G

US-09-604-287A-125

Query Match

Best Local Similarity 2.7%; Score 40.2; DB 4; Length 199;

Matches 84; Conservative 0; Mismatches 75; Indels 0; Gaps 0;

QY 1323 GGAATGGTTTCAGGCTTTTGTAGAAATTTGTTTATTGCAACAGGTAGAGACATAACC 1382  
|||||  
Db 181 GGAATCGTTCTTTTGTGTTGTTGTTTATTAGTATAACAAAGTTTTTT 122  
|||||  
QY 1383 ATAGACAGATGATCTGAAGAGATAAGCTTCTATGCTAAAGAAATGGACCGATACGA 1442  
|||||  
Db 121 ATTAGCATTTTGAAGAAGGAAAGTAAATGTACAAAGTTTATAAAAGGGGCGCTTCCCC 62  
|||||  
QY 1443 ATAAACAAGCATCATTAAGATTAAAAA 1481  
|||||

Db 61 TTAGATAGCAAAAAA 23  
|||||

## RESULT 10

US-09-285-480-125/c

; Sequence 125, Application US/09285480

; Patent No. 6590076

; GENERAL INFORMATION:

; APPLICANT: Yuqiu, Jiang

; APPLICANT: Dillon, Davin C.

; APPLICANT: Mitcham, Jennifer L.

; APPLICANT: Xu, Jiangchun

; TITLE OF INVENTION: COMPOSITIONS FOR THE TREATMENT AND

; FILE REFERENCE: 210121.470C1

; CURRENT APPLICATION NUMBER: US/09/285,480

; CURRENT FILING DATE: 1999-04-02

; NUMBER OF SEQ ID NOS: 181

; SOFTWARE: FastSeq for Windows Version 3.0

; SEQ ID NO 125

; LENGTH: 199

; TYPE: DNA

; ORGANISM: Homo sapien

; FEATURE:

; NAME/KEY: misc.feature

; LOCATION: (1)...(199)

; OTHER INFORMATION: n = A,T,C or G

US-09-285-480-125

## Query Match

Best Local Similarity 2.7%; Score 40.2; DB 4; Length 199;

Matches 84; Conservative 0; Mismatches 75; Indels 0; Gaps 0;

QY 1323 GGAATGGTTTCAGGCTTTTGTAGAAATTTGTTTATTGCAACAGGTAGAGACATAACC 1382  
|||||  
Db 181 GGAATCGTTCTTTTGTGTTGTTGTTTATTAGTATAACAAAGTTTTTT 122  
|||||  
QY 1383 ATAGACAGATGATCTGAAGAGATAAGCTTCTATGCTAAAGAAATGGACCGATACGA 1442  
|||||  
Db 121 ATTAGCATTTTGAAGAAGGAAAGTAAATGTACAAAGTTTATAAAAGGGGCGCTTCCCC 62  
|||||  
QY 1443 ATAAACAAGCATCATTAAGATTAAAAA 1481  
|||||  
Db 61 TTAGATAGCAAAAAA 23  
|||||

## RESULT 11

US-09-834-759-125/c

; Sequence 125, Application US/09834759

; Patent No. 6680197

; GENERAL INFORMATION:

; APPLICANT: Jiang, Yuqiu

; APPLICANT: Dillon, Davin C.

; APPLICANT: Mitcham, Jennifer L.

; APPLICANT: Xu, Jiangchun

; APPLICANT: Harlocker, Susan L.

; APPLICANT: Hepler, William T.

; APPLICANT: Henderson, Robert A.

; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND

; FILE REFERENCE: 210121.470C9

; CURRENT APPLICATION NUMBER: US/09/834,759

; CURRENT FILING DATE: 2001-04-13

; NUMBER OF SEQ ID NOS: 547

; SOFTWARE: FastSeq for Windows Version 3.0

; SEQ ID NO 125

; LENGTH: 199

; TYPE: DNA

; ORGANISM: Homo sapien

; FEATURE:

; NAME/KEY: misc.feature

; LOCATION: (1)...(199)

; OTHER INFORMATION: n = A,T,C or G



US-09-601-537-10  
; Sequence 10, Application US/09601537

QY  
1331 TTCAGGCTTTGTAGAAATTGTGTTATTGCAACAGGTAGAGAACATAACCATAGACAG 1390

Db 3961 TTGAGGATTTGGAATATAATTTATATTTGTAAACAAAAAATCTCAAAAAAA 4020  
Qy 1391 ATGTATCTGAAGAGATAAGCTTCTCTATGTCTAAAGAAATGGACCGATACGAATAAACA 1450  
Db 4021 AAAAAAATAAAAAAATAAAAAAATAAAAAAATAAAAAAATAAAAAAATAAAAAA 4080  
Qy 1451 AGCATCATTAAGATTAAAAAATAAAAAAATAAAAAAATAAAAAAATAAAAAA 1483  
Db 4081 AAAAAAATAAAAAAATAAAAAAATAAAAAAATAAAAAAATAAAAAAATAAAAAA 4113

RESULT 15  
US-09-640-173-18/c  
; Sequence 18, Application US/09640173  
; Patent No. 6613515  
; GENERAL INFORMATION:  
; APPLICANT: Xu, Jiangchun  
; APPLICANT: Stolk, John A.  
; TITLE OF INVENTION: OVARIAN TUMOR SEQUENCES AND  
; TITLE OF INVENTION: METHODS OF USE THEREFOR  
; FILE REFERENCE: 210121.484C2  
; CURRENT APPLICATION NUMBER: US/09/640,173  
; CURRENT FILING DATE: 2000-08-15  
; NUMBER OF SEQ ID NOS: 196  
; SOFTWARE: FastSeq for Windows Version 3.0  
; SEQ ID NO 18  
; LENGTH: 396  
; TYPE: DNA  
; ORGANISM: Homo sapien  
; FEATURE:  
; NAME/KEY: misc\_feature  
; LOCATION: (1)...(396)  
; OTHER INFORMATION: n = A,T,C or G  
US-09-640-173-18

Query Match 2.6%; Score 39; DB 4; Length 396;  
Best Local Similarity 48.1%; Pred.No. 0.081;  
Matches 78; Conservative 0; Mismatches 84; Indels 0; Gaps 0;  
Qy 1322 GGGAAATGGTTTCAGGCTTTTGTAGAAATGTGTTTATTGCAACAGGTAGAGAACATAAC 1381  
Db 178 GGGAAATGGTTTGTGNTGTGATNAGGCTTTTAAAGNANAATAAATTTT 119  
Qy 1382 CATAGACAGATGTATCTGAAGAGATAAGCTTCTCTATGTCTAAAGAAATGGACCGATACG 1441  
Db 118 TTTAGCCTTTTNAATAAAGNAAAGTAAATGNCCTTAAATAAAGGNCCTTCCC 59  
Qy 1442 AATAAACAAGCATCATTAAGATTAAAAAATAAAAAAATAAAAAAATAAAAAA 1483  
Db 58 CTTTNGANTAAAAAATAAAAAAATAAAAAAATAAAAAAATAAAAAAATAAAAAA 17

Search completed: September 23, 2004, 16:10:18  
Job time : 134 secs